

**Medtronic**

Engineering the extraordinary

# Aortic product catalogue



Endurant™ II/IIIs



Radiant™



Valiant™ Captivia™



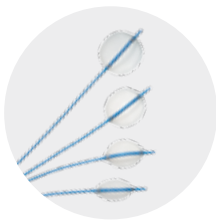
Heli-FX™



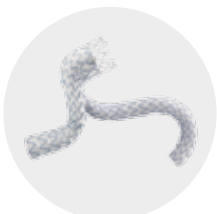
TourGuide™



Sentrant™



Reliant™



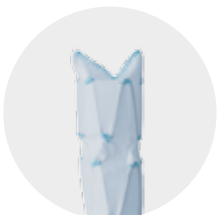
Endurant™ II/IIa



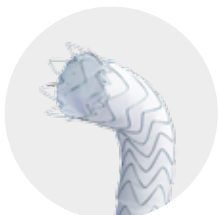
Endurant™ II AUI



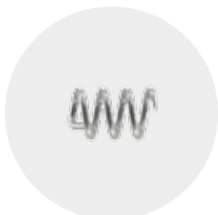
Radiant™



Talent™  
Occluder



Valiant™  
Captivia™



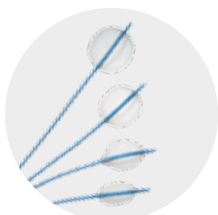
Heli-FX™



TourGuide™



Sentrant™



Reliant™

# Table of contents

- 02 **Endurant™ II/IIIs**  
stent graft system
- 26 **Radiant™**  
balloon-expandable covered stent
- 30 **Talent™ Occluder**  
with occluder delivery system
- 32 **Valiant™ Captivia™**  
thoracic stent graft system
- 46 **Heli-FX™**  
EndoAnchor™ systems
- 48 **TourGuide™**  
steerable sheath
- 50 **Sentrant™**  
introducer sheath with hydrophilic coating
- 52 **Reliant™**  
stent graft balloon catheter

# Endurant™ II/IIIs

stent graft system

## Features†

You can be confident in your outcomes with a design that addresses sac regression.

### Accurate placement & controlled deployment

- Intuitive graft deployment system provides controlled release of the suprarenal stent & anchor pins and offers controlled delivery at the intended target zone with 99.1% delivery and deployment success (ENGAGE PAS)
- Tip capture deployment mechanism allows precise positioning – even after deployment of 3 stent rings– and allows greater control of deployment and landing accuracy

### Continuous seal, fixation & graft conformability

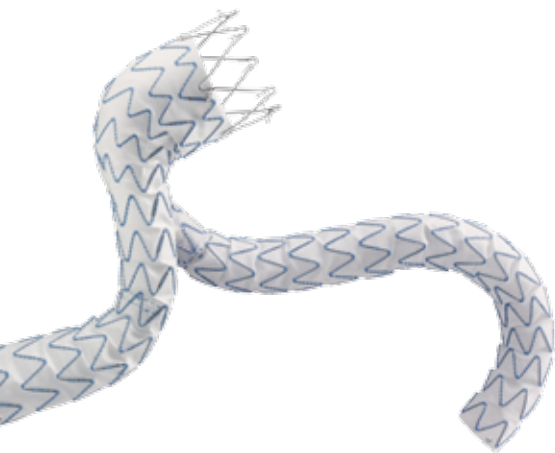
- M-shaped proximal stents maximize wall apposition & circumferential conformability and minimize in-folding resulting in low Type Ia endoleak rates
- 45° suprarenal stent anchor pins provide secure fixation over time and reduce main migration risk and device movement
- Electropolished nitinol stent maximize circumferential conformability with dynamic continuous seal

### Durable hemostatic barrier & resistance against type II ELs

- Graft material addresses sac regression provides durable hemostatic barrier and reduced Type II endoleaks
- Multifilament polyester material provides low permeability

† Test data on file at Medtronic with reference Claims Matrix Endurant OUS Catalog. Bench test results may not be indicative of clinical performance.

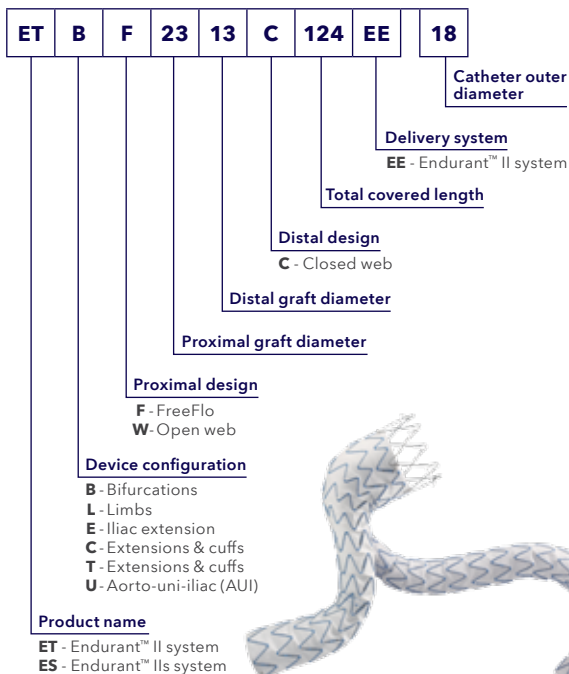
Optimize  
outcomes for  
the broadest  
patient base



# Endurant™ II/IIIs

stent graft system

## Endurant™ II/IIIs 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					Catheter outer diameter (Fr)
	Proximal graft diameter (mm)	Distal graft diameter (mm)	Distal design	Total covered length (mm)	Delivery system	
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/IIs

stent graft system

## Limbs†

Product code						Catheter outer diameter (Fr)	Total contralateral covered length with EII/EIIs bifurcated**	Total ipsilateral covered length with EIs bifurcated††
Proximal graft diameter (mm)	Distal graft diameter (mm)	Distal design	Total covered length (mm)	Delivery system				
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
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

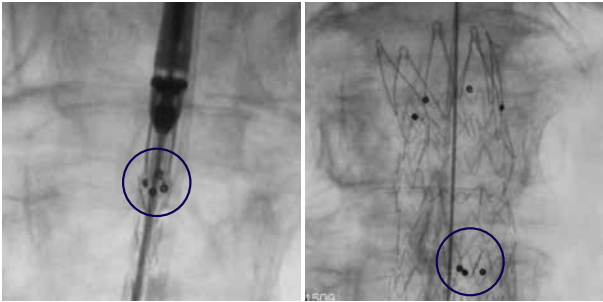
# Endurant™ II/IIs

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™ II s 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™ II s 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 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 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/IIs 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, aortic extensions

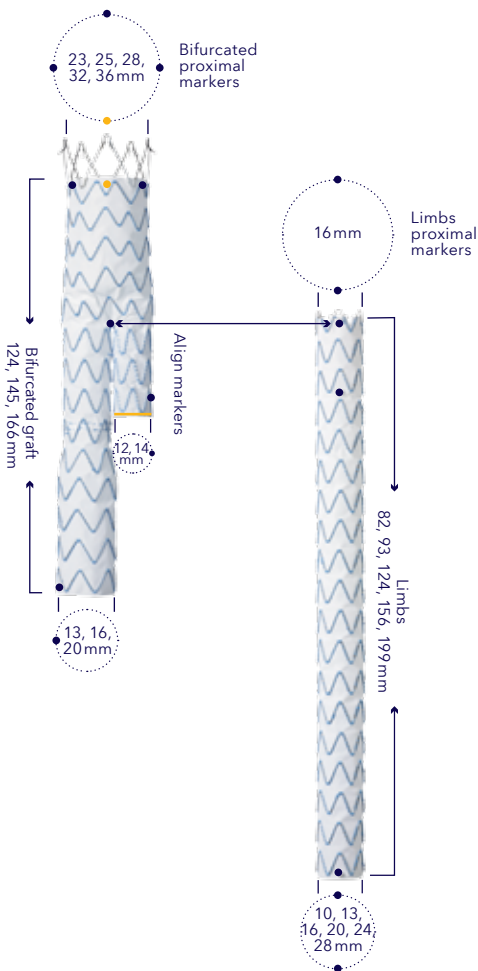
\*\* ChEVAR Indication not approved globally. Check local regulatory status. For complete product information visit [www.medtronic.com/manuals](http://www.medtronic.com/manuals). Consult instructions for use at this website. Manuals can be viewed using a current version of any major internet browser. For best results, use Adobe Acrobat® Reader with the browser. Adobe and Acrobat reader are registered trademarks of Adobe Systems incorporated in the United States and/or other countries.

# Endurant™ II/IIs

stent graft system

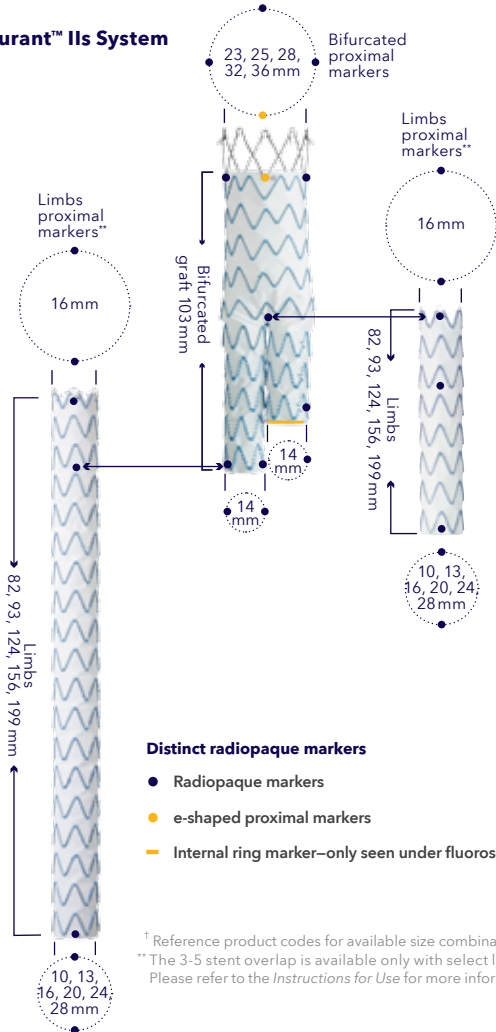
## Component placement guide†

### Endurant™ II system





## Endurant™ IIs System



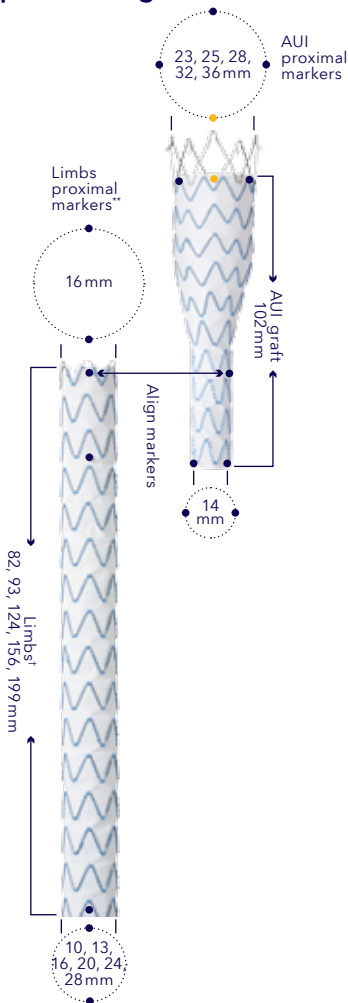
† Reference product codes for available size combinations.

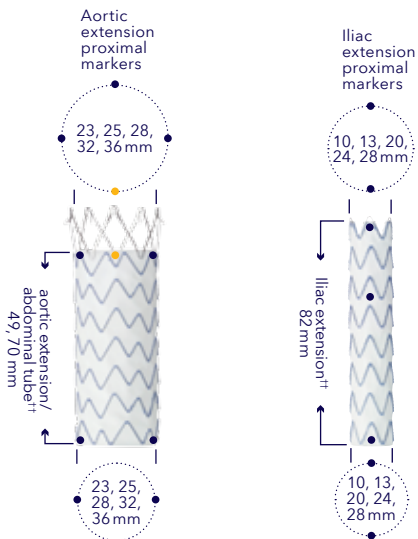
\*\* The 3-5 stent overlap is available only with select limbs. Please refer to the *Instructions for Use* for more information.

# Endurant™ II/IIs

stent graft system

## Component placement guide





### Distinct radiopaque markers

- Radiopaque markers
- e-shaped proximal markers

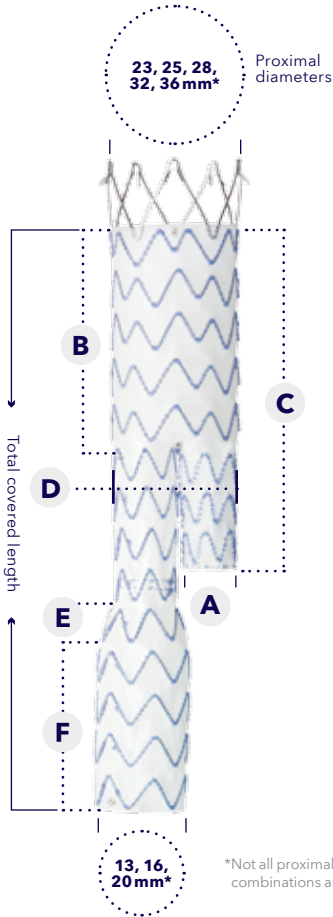
† The limb mates with the Endurant™ II AUI stent graft on the ipsilateral side.

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

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

# Endurant™ II/IIs

stent graft system



## Endurant™ II system bifurcations



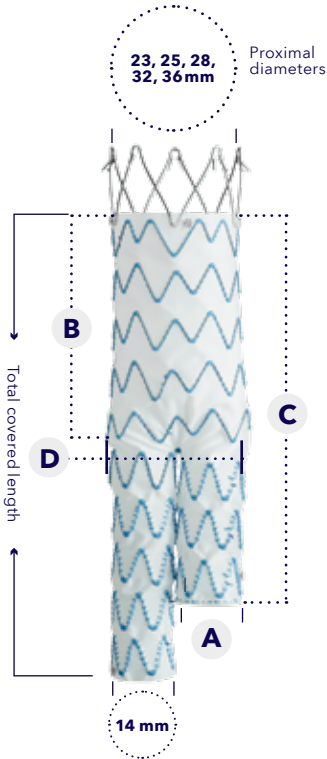


## Endurant™ II system bifurcations

	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	E	F
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	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	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	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	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	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	16	C	145	EE	14	50	84	30	-	-
ETBF	36	16	C	166	EE	14	50	84	30	-	-
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

stent graft system



Endurant™ II/IIs system bifurcations



## Endurant™ IIs system bifurcations

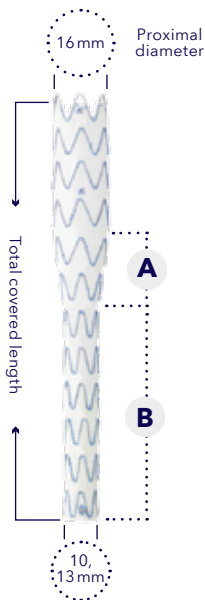
	Product code					Graft dimensions (mm)			
	Proximal graft diameter (mm)	Distal graft diameter (mm)	Distal design	Total covered length (mm)	Delivery system	A	B	C	D
	ESBF	23	14	C	103	EE	14	50	84
ESBF	25	14	C	103	EE	14	50	84	28
ESBF	28	14	C	103	EE	14	50	84	28
ESBF	32	14	C	103	EE	14	50	84	28
ESBF	36	14	C	103	EE	14	50	84	28

# Endurant™ II/IIs

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

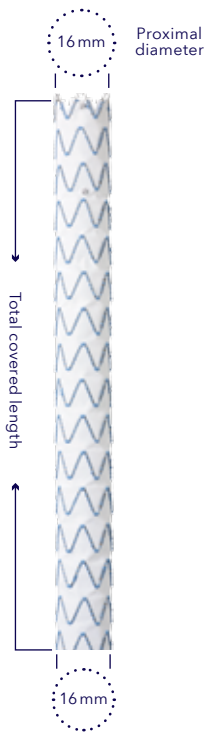


**Tapered limbs**



## Straight limbs

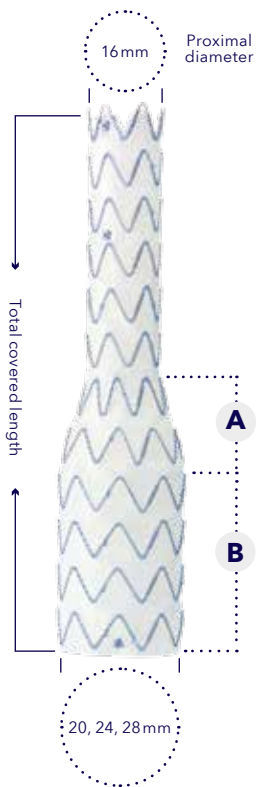
Product code					
	Proximal graft diameter (mm)	Distal graft diameter (mm)	Distal design	Total covered length (mm)	Delivery system
ETLW	16	16	C	82	EE
ETLW	16	16	C	93	EE
ETLW	16	16	C	124	EE
ETLW	16	16	C	156	EE
ETLW	16	16	C	199	EE



**Straight limbs**

# Endurant™ II/IIs

stent graft system



**Flared limbs**



## Flared limbs

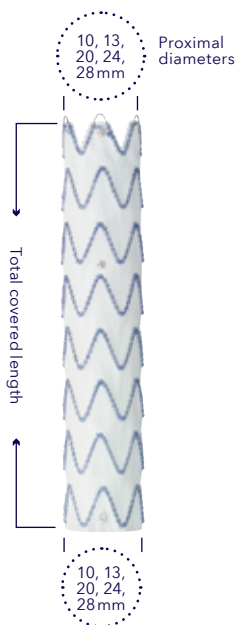
	Product code					Graft dimensions (mm)	
	Proximal graft diameter (mm)	Distal graft diameter (mm)	Distal design	Total covered length (mm)	Delivery system	A	B
ETLW	16	20	C	82	EE	10	30
ETLW	16	20	C	93	EE	10	40
ETLW	16	20	C	124	EE	10	40
ETLW	16	20	C	156	EE	10	40
ETLW	16	20	C	199	EE	10	40
ETLW	16	24	C	82	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

stent graft system

## Iliac extensions

Product code					
	Proximal graft diameter (mm)	Distal graft diameter (mm)	Distal design	Total covered length (mm)	Delivery system
ETEW	10	10	C	82	EE
ETEW	13	13	C	82	EE
ETEW	20	20	C	82	EE
ETEW	24	24	C	82	EE
ETEW	28	28	C	82	EE



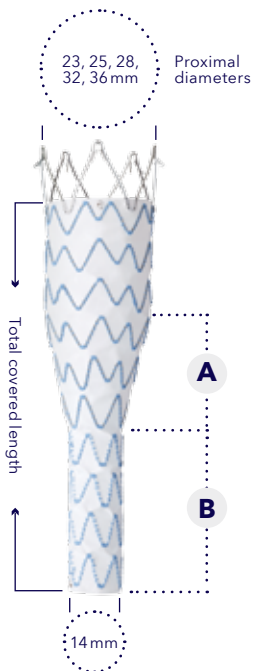
**Iliac extensions**





## AUI

	Product code						Graft dimensions (mm)	
	Proximal graft diameter (mm)	Distal graft diameter (mm)	Distal design	Total covered length (mm)	Delivery system	Graft dimensions (mm)		
						A	B	
ETUF	23	14	C	102	EE	30	40	
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	



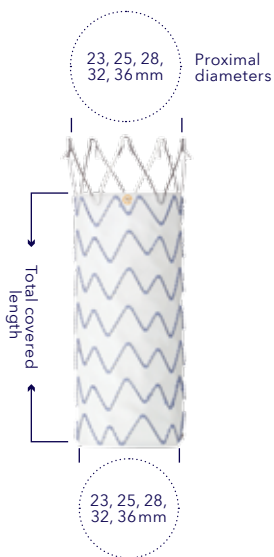
**Endurant™ II AUI**

# Endurant™ II/IIIs

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

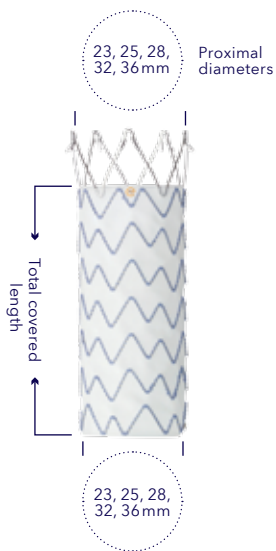


## Aortic extensions



## 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

# Radiant™

balloon expandable covered stent

## Features

Indicated. Published. Validated.  
Safe and effective in ChEVAR

- The only covered stent tested and approved for ChEVAR indication with the Endurant™ II/IIIs stent graft system
- Radiant covered stent shows significantly better performance in ChEVAR compared to other stent grafts with 94.6% patency at mid-term follow-up<sup>1</sup>
- ChEVAR with Radiant stent + Endurant™ II/IIIs stent graft system demonstrates positive clinical outcomes<sup>2</sup>

Predictable, accurate delivery and deployment†

- Radiopaque markers ensure accurate placement of stent graft during deployment
- Radiant covered stent's open cell stent design provides flexibility in delivery and placement
- Designed to track through tortuous arteries and flex to accommodate the renal anatomy
- Low profile offers versatility and effective delivery in complex endovascular procedures

Designed for radial strength and versatility†

- Radial strength of the stent design maintains vessel patency in ChEVAR
- Designed to bend to accommodate and fit the renal anatomy, during use with Endurant II/IIIs system in ChEVAR
- Ability to post-dilate allows a customized solution to various anatomy

† Test data on file at Medtronic with reference Endurant and Radiant ChEVAR Claims Matrix. Bench test results may not be indicative of clinical performance.

<sup>1</sup> Pitoulas et al. *J Vasc Surg.* 2021; Feb;73(2):433-442

<sup>2</sup> Donas KP et al. *J Vasc Surg.* 2016; 63:1-7.

## Product code description

<b>R</b>	<b>BXCS</b>	<b>6</b>	<b>22</b>	<b>120</b>	<b>EE</b>
----------	-------------	----------	-----------	------------	-----------

Catheter length

Length

Diameter

## Device configuration

- B** - Balloon
- X** - Expandable
- C** - Covered
- S** - Stent

## Product name

R - Radiant



## Radiant™ stent sizing guidelines

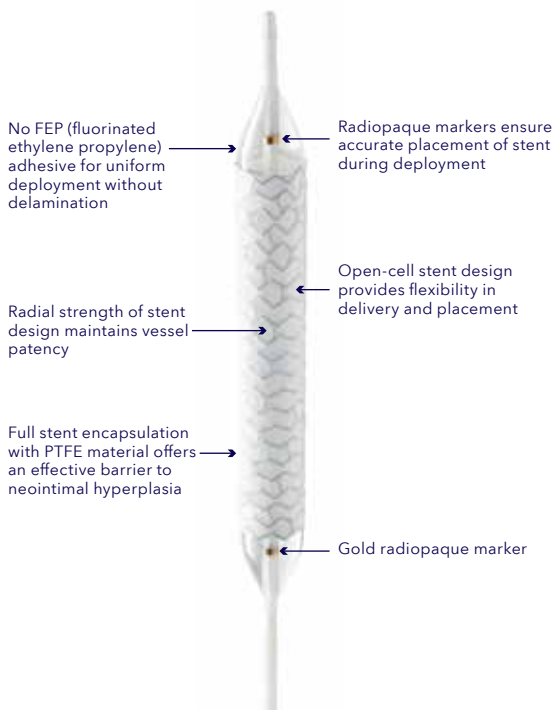
Renal native diameter (mm)	Recommended Radiant diameter (mm)
5.4 – 6.2	6
6.3 – 7.2	7

## Radiant™ balloon-expandable covered stent

	Product code				French size
	Diameter (mm)	Stent length (mm)	Catheter length (mm)		
RBXCS	6	22	120	EE	6
RBXCS	6	32	120	EE	7
RBXCS	6	38	120	EE	7
RBXCS	6	59	120	EE	7
RBXCS	7	22	120	EE	7
RBXCS	7	32	120	EE	7
RBXCS	7	38	120	EE	7
RBXCS	7	59	120	EE	7

# Radiant™

balloon expandable covered stent









## Balloon inflation table

IP			BALLOON	
(kPa)	(atm)		(6.0)	(7.0)
<b>811</b>	<b>8</b>	<b>NP</b>	<b>6.1</b>	<b>7.1</b>
912	9		6.2	7.2
1013	10		6.2	7.2
1115	11		6.2	7.3
<b>1216</b>	<b>12</b>	<b>RBP</b>	<b>6.3</b>	<b>7.3</b>

NP = Nominal pressure

RBP = Rated burst pressure

## Stent expansion table

	NP		RBP	
	8 ATM (811 kPa)		12 ATM (1216 kPa)	
				
6 mm x 22 mm	5.8	20.8	6.2	20.2
6 mm x 32 mm	5.9	31.7	6.3	31.5
6 mm x 38 mm	6.0	36.6	6.3	37.0
6 mm x 59 mm	6.0	57.8	6.3	58.7
7 mm x 22 mm	6.9	20.1	7.3	19.4
7 mm x 32 mm	6.9	31.3	7.3	31.2
7 mm x 38 mm	6.9	35.8	7.3	31.2
7 mm x 59 mm	7.0	57.1	7.3	57.5

# Talent™ Occluder

with occluder delivery system

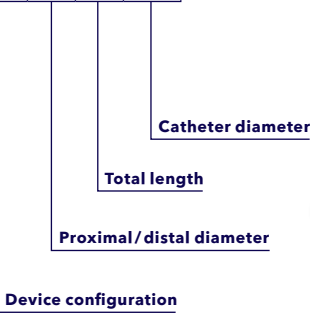
## Features

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

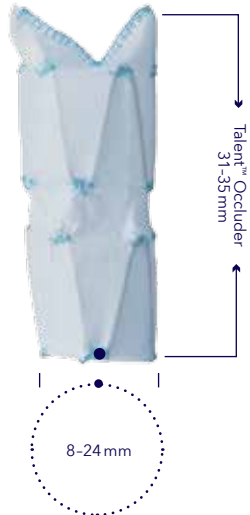
## Component placement guide

### Product code description

<b>OCL</b>	<b>8</b>	<b>31</b>	<b>17.5</b>
------------	----------	-----------	-------------



**OCL**- Occluder



- Radiopaque markers





## Talent™ Occluder

Product Code			
	Proximal/ distal diameter (mm)	Total length (mm)	Catheter diameter (Fr)
OCL	14	33	17.5
OCL	16	33	17.5
OCL	20	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™ Captivia™

thoracic stent graft system

## Deploy durability

### Precise deployment†

- Easy three step deployment process†
- 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

### Optimal seal†

- Proximal FreeFlo configuration evenly distributes radial force over multiple apices
- Mini support spring optimizes proximal apposition with the vessel wall
- Only device that maintains complete apposition regardless of angulation and oversizing<sup>1</sup>

## Clinical track record in all descending thoracic aortic pathologies

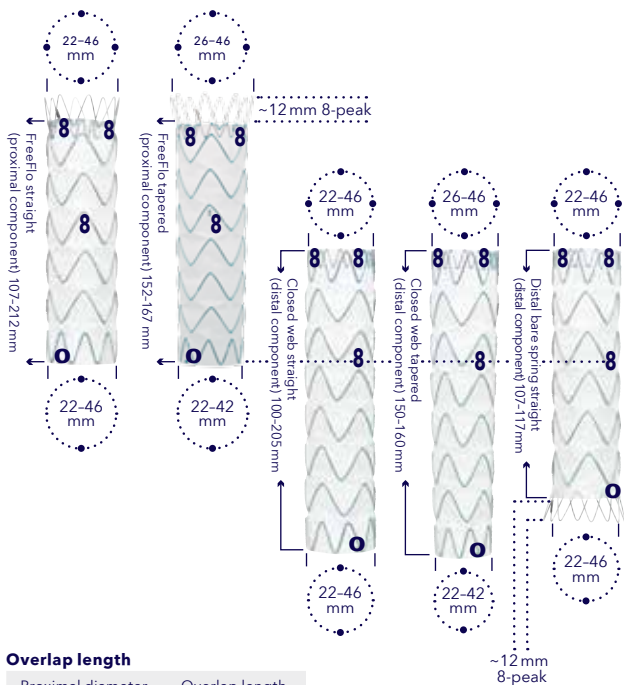
- 5-year outcomes in TAA, PAU, BTAI and Dissection
- Positive aortic remodeling through 5 years in acute complicated Type B aortic dissection.
- Broad selection of proximal and distal components and tapered sizes treats a variety of patients

† Test data on file at Medtronic with reference Claims Matrix Valiant Captivia Brochure OUS. Bench test results may not be indicative of clinical performance.

<sup>1</sup> Canaud L, Cathala P, Joyeux F, Branchereau P, Marty-Ané C, Alric P. Improvement in conformability of the latest generation of thoracic stent grafts. *J Vasc Surg.* April 2013;57(4):1084-1089.



## Component placement guide





### 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  $\pm 5$  mm

### Distinct radiopaque markers

-  Figur8 marker
-  Zer0 marker

# Valiant™ Captivia™

thoracic stent graft system

Medtronic recommends that the Valiant™ thoracic stent graft with the Captivia™ delivery system be used according to the sizing guidelines contained in the IFU. Proper sizing of the Valiant™ thoracic stent graft is the responsibility of the physician.

## **Aneurysms, penetrating ulcers and traumatic ruptures:**

Full sizing guidelines are detailed in the *Instructions for Use (IFU)*. Additional oversizing should not be incorporated. Please visit [manuals.medtronic.com](http://manuals.medtronic.com) for more detailed sizing information.

## **Dissection:**

For Dissections, appropriate oversizing has already been incorporated into the recommended sizes. Additional oversizing should not be incorporated. Oversizing of the stent graft to the vessel >10% may be unsafe in the presence of dissecting tissue or intramural hematoma.

## **For additional sections:**

When multiple stent grafts are needed to exclude the target lesion, and the component junction or overlapping connection is not supported by the aorta, the diameter of the inside component should be oversized by 4 mm relative to the outside component. If it is supported by the vessel, oversizing to the supporting native vessel should be used.

## **Fusiform & saccular aneurysms and penetrating ulcers sizing guidelines**

Native vessel (mm)	Suggested FreeFlo straight stent graft diameter (mm)
18, 19	22
20, 21	24
22, 23	26
24, 25	28
25, 26, 27	30
27, 28, 29	32
29, 30, 31	34
31, 32	36
33, 34	38
35, 36	40
37, 38	42
39, 40	44
41, 42	46



## Blunt traumatic aortic injury sizing guidelines

Native vessel (mm)	Suggested stent graft diameter (mm)
18	22
19	22
20	24
21	24
22	26
23	26
24	28
25	28
25	30
26	30
27	30
27	32
28	32
29	32
29	34
30	34
31	34
31	36
32	36
33	38
34	38
35	40
36	40
37	42
38	42
39	44
40	44
41	46
42	46

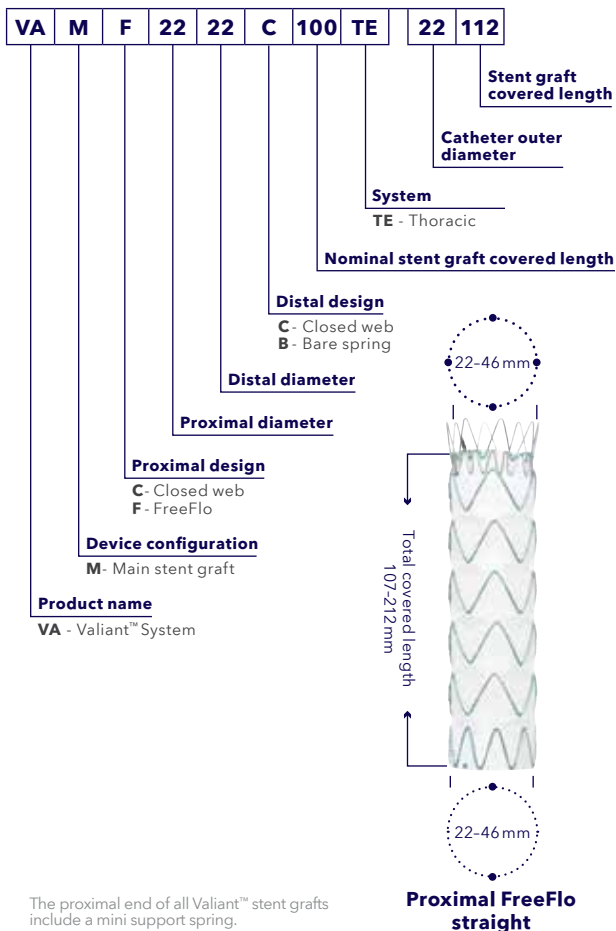
## Dissection sizing guidelines

Native vessel (mm)	Suggested stent graft diameter (mm)
20	22
21	22
22	24
23	24
24	26
25	26
26	28
27	28
28	30
29	32
30	32
31	34
32	34
33	36
34	36
35	38
36	38
37	40
38	40
39	42
40	42
40	44
41	44
42	44
42	46
43	46
44	46

# Valiant™ Captivia™

thoracic stent graft system

## Valiant™ Captivia™ system product code description



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

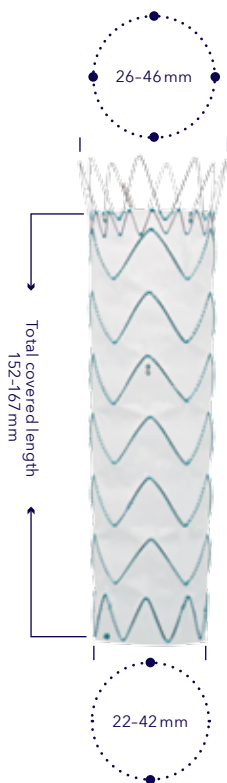


## Proximal FreeFlo straight

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 system



**Proximal FreeFlo  
tapered**





## Proximal FreeFlo tapered

Product code							
	Proximal graft diameter (mm)	Distal graft diameter (mm)	Distal design			Catheter outer diameter (Fr)	Stent graft covered length (mm)
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 system



**Closed web straight**



## Closed web straight

Product code						Catheter outer diameter (Fr)	Stent graft covered length (mm)
	Proximal graft diameter (mm)	Distal graft diameter (mm)	Distal design				
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 system



**Closed web tapered**



## Closed web tapered

Product code							
	Proximal graft diameter (mm)	Distal graft diameter (mm)	Distal design			Catheter outer diameter (Fr)	Stent graft covered length (mm)
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 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

#### Reinforced seal, durable outcomes

- EndoSuture Aneurysm Repair (ESAR) with the Heli-FX™ EndoAnchor™ systems enhances the durability of EVAR and TEVAR endografts and protects against neck dilatation.<sup>1</sup>
- EndoAnchor™ implants are designed to provide radial support via transmural fixation, offering the strength and stability of a surgical anastomosis in an endovascular fashion<sup>2</sup>
- The EndoAnchor™ implant and Heli-FX™ EndoAnchor™ systems have been evaluated via in vitro testing and determined to be compatible with the Cook Zenith™, Cook Zenith TX2™, Gore Excluder™, Gore TAG™, Medtronic AneuRx™, Medtronic Endurant™, Medtronic Talent™ AAA, Medtronic Talent™ TAA, Medtronic Valiant Xcelerant™, Medtronic Valiant Captivia™, and Medtronic Valiant Navion™ endografts.

#### Expanding patient care options

- Endurant™ II/IIIs stent graft system and Heli-FX™ EndoAnchor™ systems
- The first off-the-shelf short neck EVAR solution
- Indicated for neck lengths less than 10mm down to 4mm

#### EVAR ordering information

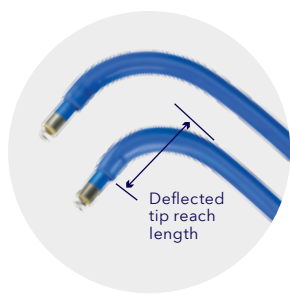
AAA components (mm)	Deflected tip reach (mm)	Recommended neck diameter (mm)	Working length (cm)	O.D. (Fr)	Catalog number
Heli-FX™ system guide, 22	22	18-28	62	16	SG-64
Heli-FX™ system guide, 28	28	28-32	62	16	HG-16-62-28
Heli-FX™ applier and EndoAnchor™ cassette (w/10 EndoAnchor™ implants)	NA	NA	86	12	SA-85
Ancillary EndoAnchor™ cassette (w/5 EndoAnchor™ implants)	NA	NA	NA	NA	EC-05

<sup>\*</sup> Third party brands are trademarks of their respective owners

<sup>1</sup> Tassiopoulos AK, Monastiriotes S, Jordan WD, Muhs BE, Ouriel K, De Vries JP. Predictors of early aortic neck dilatation after endovascular aneurysm repair with EndoAnchors. *J Vasc Surg.* July 2017;66(1):45-52.

<sup>2</sup> Melas N, Perdikides T, Saratzis A, et al. Helical EndoStaples enhance endograft fixation in an experimental model using human cadaveric aortas. *J Vasc Surg.* 2012 Jun;55(6):1726-33.





## 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™ applicator 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™

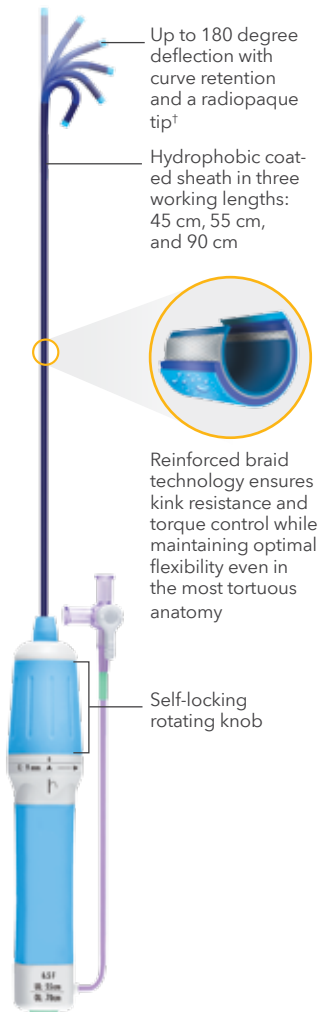
steerable sheath

## 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

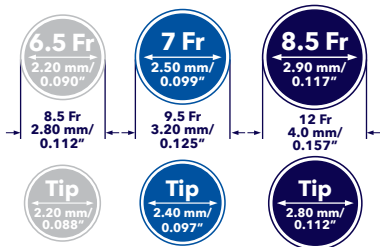


† Bench Test Data on file at Medtronic with reference Claims Matrix OUS Catalog.  
Test data not indicative of clinical performance



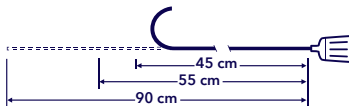
## Inner diameter compatibility

For use with aortic and peripheral interventional devices



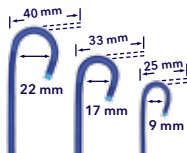
## Three working lengths

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)	Deflection length @ 90° (mm)
TG0654509	6.5	45	9	25
TG0654517	6.5	45	17	33
TG0655509	6.5	55	9	25
TG0655517	6.5	55	17	33
TG0659009	6.5	90	9	25
TG0704509	7.0	45	9	25
TG0704517	7.0	45	17	33
TG0705509	7.0	55	9	25
TG0705517	7.0	55	17	33
TG0709009	7.0	90	9	25
TG0854517	8.5	45	17	36
TG0855517	8.5	55	17	36
TG0855522	8.5	55	22	40
TG0859017	8.5	90	17	35

# Sentrant™

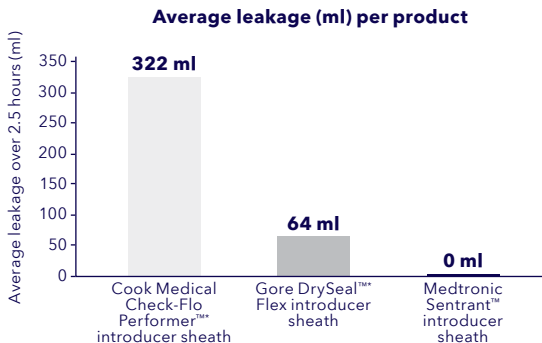
introducer sheath with hydrophilic coating

## 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†



#### Product (16Fr)

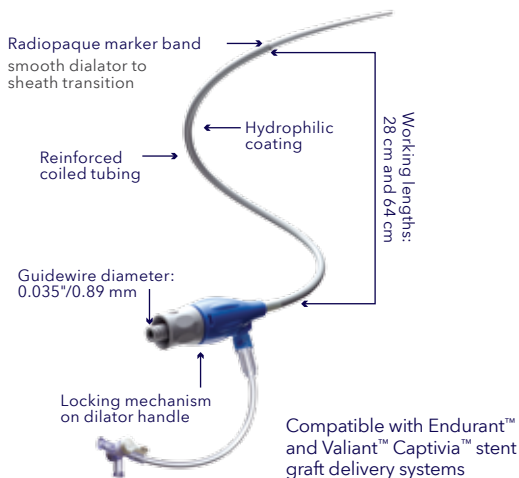
\* Third party brands are trademarks of their respective owners

† 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

# Reliant™

stent graft balloon catheter

## 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 <sup>†</sup>	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

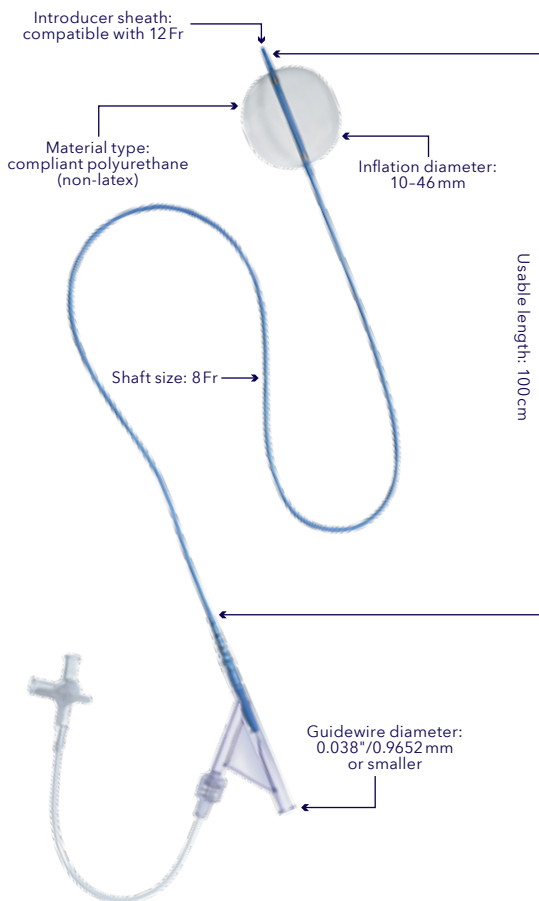
Please reference appropriate product *Instructions for Use* for a more detailed list of indications, warnings, precautions and potential adverse events.

<sup>†</sup>Maximum inflation diameter.

\*\*Does not contain latex.



## Multiple purposes, single solution



## Notes

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See the device manual for detailed information regarding the instructions for use, the implant procedure, indications, contraindications, warnings, precautions, and potential adverse events. For further information, contact your local Medtronic representative and/or consult the Medtronic website at [medtronic.eu](http://medtronic.eu).

# Medtronic

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