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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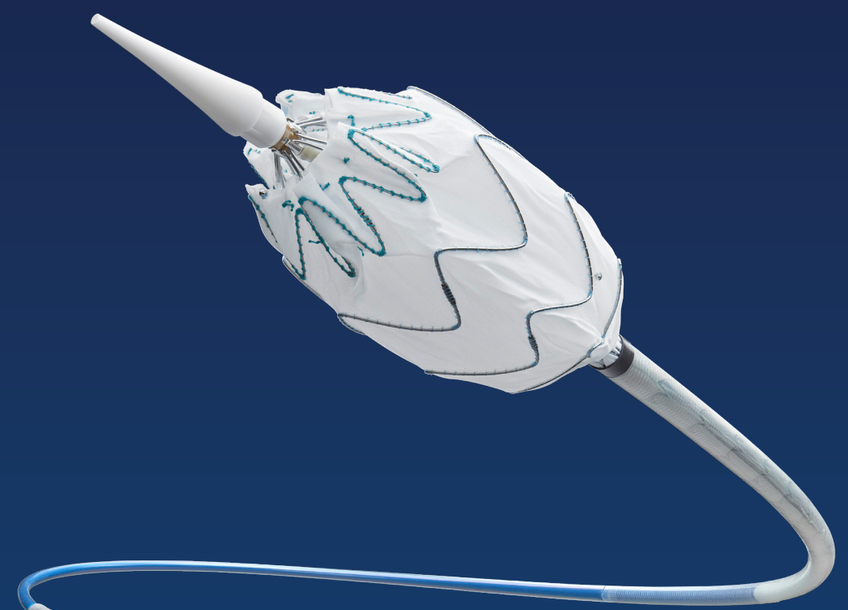
FREEDOM TO **DO MORE**



Valiant Navion™

Thoracic Stent Graft System

Low Profile: 18 Fr O.D.

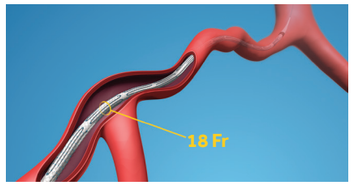
Medtronic
Further, Together

DO MORE:
REIMAGINED DESIGN

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

ACCESS MORE

Low profile delivery system
18-22Fr designed for expanded access



Designed for smooth navigation
Highly flexible, kink resistant, hydrophilic-coated catheter smoothly navigates through tortuous, diseased, and heavily calcified vessels

Shorter tapered tip
Designed to minimize vessel impact and ensure trackability without the need of a sheath

CONTROL MORE

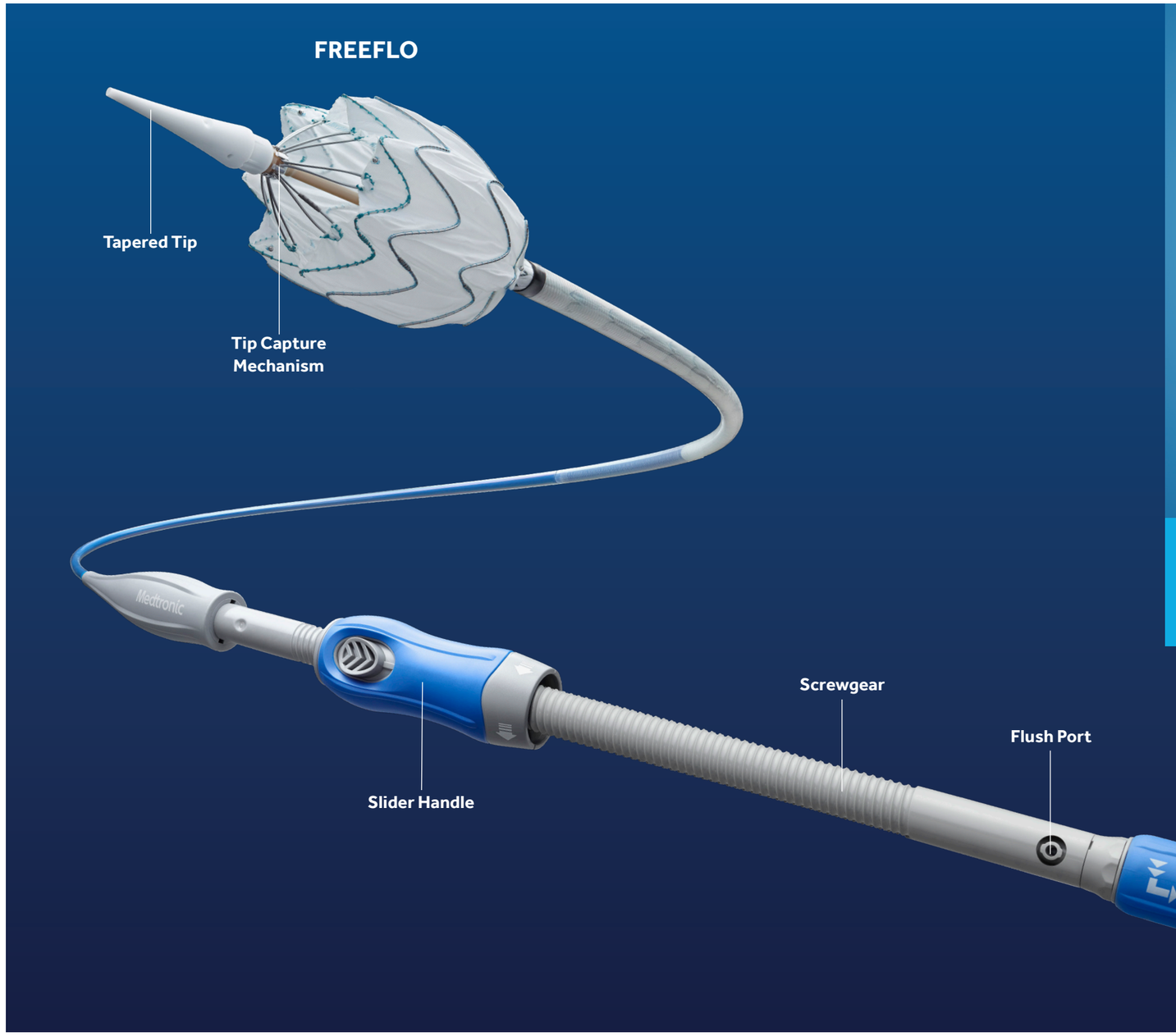
Tip capture
For controlled delivery and accurate deployment on both FreeFlo and CoveredSeal configurations

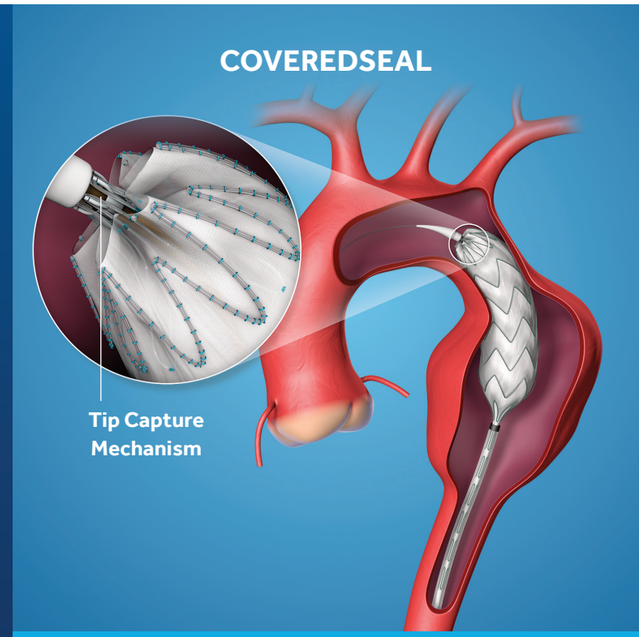
Easy to use screwgear
Provides a mechanical advantage for consistent smooth deployment

Ergonomic design
Versaflex material engineered for enhanced feel

Integrated flush port
Allows for easy flushing of the device prior to vessel access

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





A true covered stent option with the control and accuracy you have come to expect

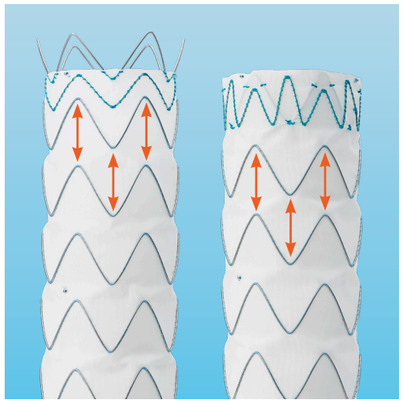
DO MORE:
REIMAGINED DESIGN

Versatile durable design with the control, accuracy and conformability you have come to expect

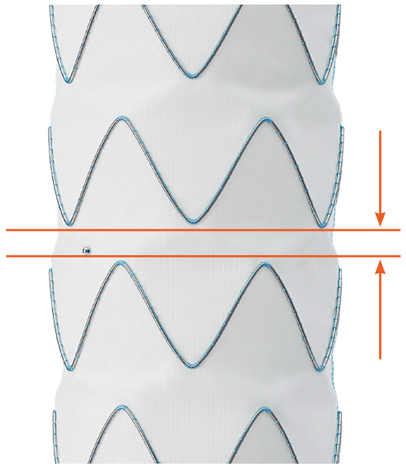
CONFORM TO MORE

Stent Design

Aligned stent peaks and valleys
Designed for increased flexibility throughout the stent graft



Increased distance between stents
Designed to optimize migration resistance & conformability

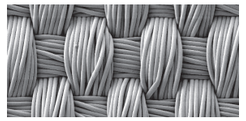


Bench test data on file at Medtronic.
Data not indicative of clinical performance.

SEAL MORE

Improved Seal - leveraging our experience in the abdominal space to optimize the graft material

Thoracic graft material
Multi-filament thoracic graft material based on Endurant™ stent graft yarn designed for flexibility and superior permeability resistance

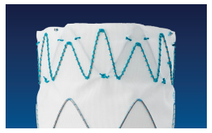


FreeFlo support stent & CoveredSeal W-stent
Designed to support the proximal fabric and prevent in-folding

CUSTOMIZE MORE

Better treat the pathology at hand

CoveredSeal with tip capture
Offers reduced focal interaction & consistent distribution of radial force in the seal zone



Broad size matrix
Shorter and longer lengths, smaller diameter and greater tapering offer more sizing options to tailor fit varied pathologies

DO MORE:
PROVEN PLATFORMS

Leveraging the proven design of Endurant™ and Valiant™ stent graft systems

BUILT ON PROVEN PLATFORMS

100K+
thoracic patients treated with Valiant™ graft worldwide

300K+
abdominal patients treated with Endurant™ graft worldwide

OVER 20 YEARS
of endovascular experience with deep clinical history

Versatile with Low Profile

18Fr - 22Fr O.D.

with multiple options for proximal configuration

74.7% proximal FreeFlo usage (65/87)†

25.3% proximal CoveredSeal usage (22/87)†

NO access vessel failures (0/87)†

50.6% percutaneous access (44/87)†

Challenging patients: Challenging anatomy

71.2% of patients with ASA III/IV (62/87)†

85.7% of patients with high thoracic aorta tortuosity (66/87)†

NO conversion to open surgery (0/87)†

NO deployment failures (0/87)†

1.2% Type I EL at 30-days (1/81)†

†Data on file at Medtronic

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

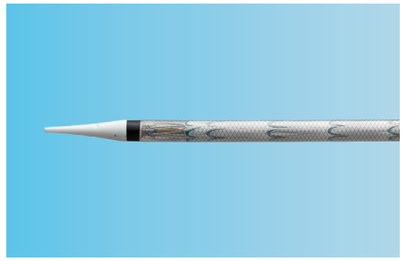
EASY THREE–STEP DEPLOYMENT PROCESS

Step 1
Slow, controlled deployment for precise stent graft placement

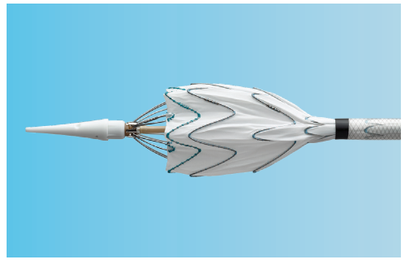
Step 2
Quick deployment option, if desired

Step 3
Tip capture release

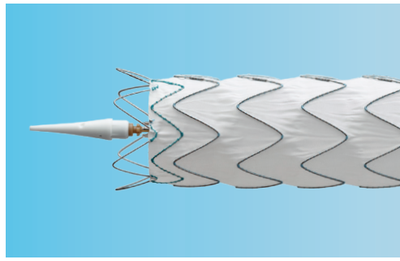
FREEFLO



Deployment



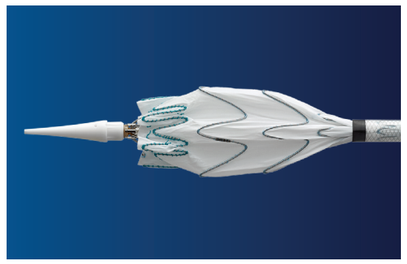
Captured



Released

COVEREDSEAL

Deployment



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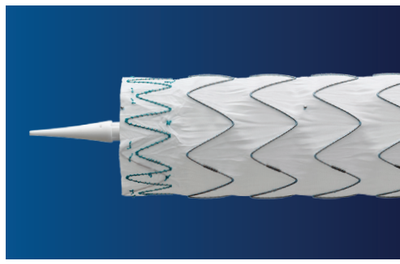
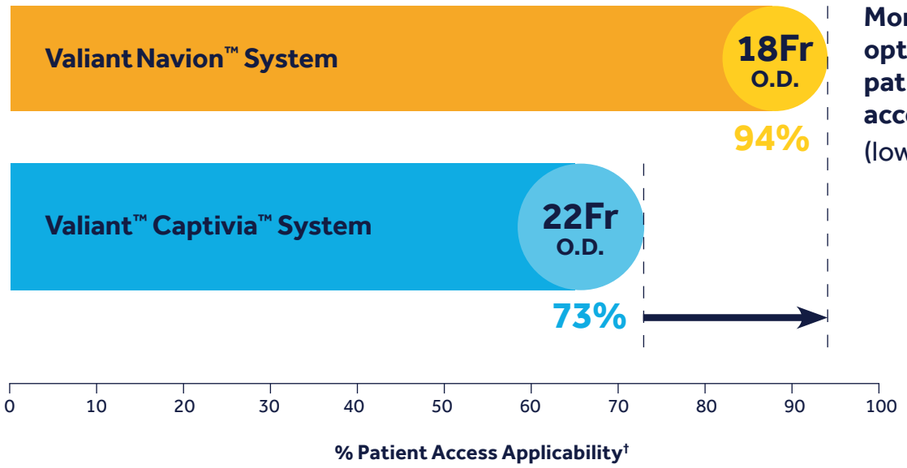


Released

DO MORE: REACH FURTHER

Valiant Navion™ system offers an easy-to-use endovascular solution to more patients

PATIENT APPLICABILITY



More treatment options for your patients with smaller access vessels
(low profile)

	Medtronic Valiant Navion™‡	Gore C-TAG™*§	Cook Zenith™* Alpha™* Thoracic[1]	Terumo Aortic Relay™* Pro[2]
Profile	☑ **18Fr-22Fr O.D.**	20Fr-27Fr O.D. (18Fr-24Fr ID Sheaths)	18Fr-23Fr O.D.	19Fr-22Fr O.D.
Sheath Required	☑ **No**	Yes	No	No
Aneurysm, Dissection, PAU, BTAI, IMH	☑ **Yes**	Yes	No	Yes
Tip Capture	☑ **Yes**	No	Yes Exposed barbs	Yes
Proximal Design	☑ **FreeFlo CoveredSeal**	Mini-bare stents	Bare stents with barbs	Bare stent Scallop
Distal Taper	☑ **5-6mm**	4mm	4mm	4mm

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†Based on M2S anatomical data for 45K subjects
‡Data on file at Medtronic
§Gore C-TAG™* thoracic stent graft IFU
[1]Cook Zenith™* Alpha™* thoracic stent graft IFU
[2]Terumo Aortic. RE-GENERATION: The Safety and Performance of the Relay Pro and Relay NBS Pro Stent-graft Devices in the European Union (EU) (RE-GENERATION). Available from: https://clinicaltrials.gov/ct2/show/NCT03207568. NLM identifier: NCT03207568. Accessed July 25, 2018.

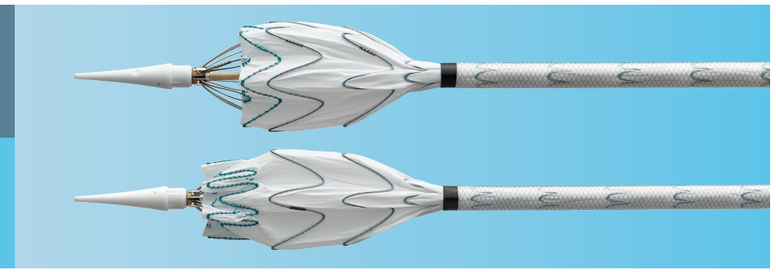
FREEDOM TO DO MORE

REIMAGINED DESIGN

For expanded treatment with the control and accuracy you have come to expect, now with FreeFlo and CoveredSeal options

FreeFlo & CoveredSeal with tip capture

Optimized graft material & stent design



BUILT ON PROVEN PLATFORMS

Leveraging the proven design of Endurant™ and Valiant™ stent graft systems

OVER 20 YEARS of endovascular experience with deep clinical history

100K+ thoracic patients treated with Valiant™ graft worldwide

300K+ abdominal patients treated with Endurant™ graft worldwide

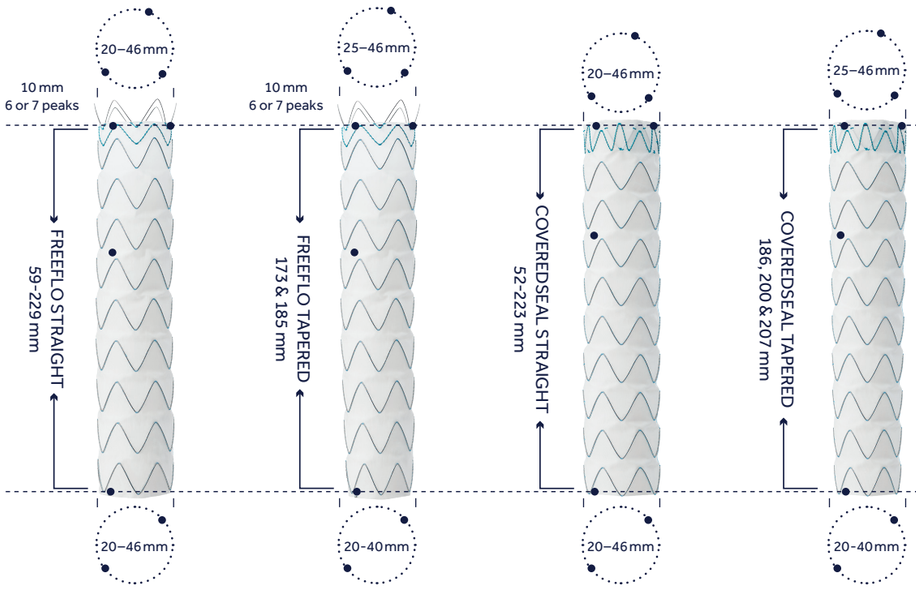
REACH FURTHER

Valiant Navion™ system offers an easy-to-use endovascular solution to more patients

- Low profile 18 Fr - 22 Fr O.D.
- Broader patient applicability
- Enhanced customization: Expanded size matrix and configurations

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

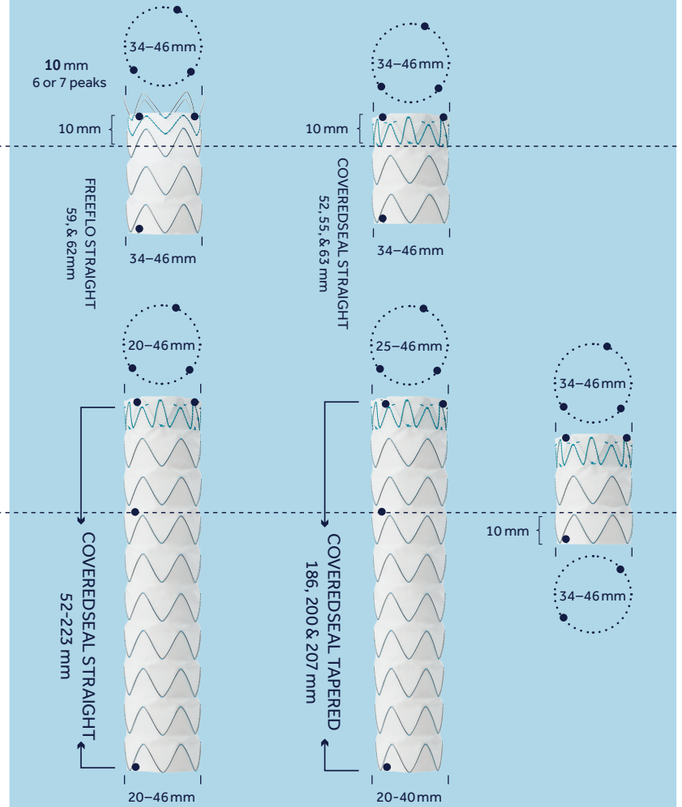
COMPONENT PLACEMENT GUIDE AND PRODUCT CODES



DISTINCT RADIOPAQUE MARKER

- Spherical RO Marker

Additional Components



FREEFLO STRAIGHT

Product Code									
	Proximal Graft Diameter (mm)	Distal Graft Diameter (mm)		Stent Graft Covered Length (mm)		Vessel Diameter: TAA, PAU (mm)	Vessel Diameter: Dissection (mm)	Vessel Diameter: BTAI (mm)	Catheter Outer Diameter (Fr)
VNMF	20	20	C	96	TE	16-17	19	16-17	18
VNMF	22	22	C	96	TE	18-19	20-22	18-20	18
VNMF	22	22	C	185	TE	18-19	20-22	18-20	18
VNMF	25	25	C	96	TE	20-22	23-25	20-23	18
VNMF	25	25	C	185	TE	20-22	23-25	20-23	18
VNMF	28	28	C	97	TE	23-25	26-28	23-26	20
VNMF	28	28	C	174	TE	23-25	26-28	23-26	20
VNMF	31	31	C	97	TE	26-28	29-30	26-29	20
VNMF	31	31	C	174	TE	26-28	29-30	26-29	20
VNMF	31	31	C	229	TE	26-28	29-30	26-29	20
VNMF	34	34	C	59	TE	28-31	31-33	28-32	20
VNMF	34	34	C	97	TE	28-31	31-33	28-32	20
VNMF	34	34	C	174	TE	28-31	31-33	28-32	20
VNMF	34	34	C	229	TE	28-31	31-33	28-32	20
VNMF	37	37	C	59	TE	30-33	34-36	30-35	20
VNMF	37	37	C	97	TE	30-33	34-36	30-35	20
VNMF	37	37	C	174	TE	30-33	34-36	30-35	20
VNMF	37	37	C	229	TE	30-33	34-36	30-35	20
VNMF	40	40	C	62	TE	33-36	37-39	33-38	22
VNMF	40	40	C	103	TE	33-36	37-39	33-38	22
VNMF	40	40	C	183	TE	33-36	37-39	33-38	22
VNMF	40	40	C	223	TE	33-36	37-39	33-38	22
VNMF	43	43	C	62	TE	36-39	39-42	36-41	22
VNMF	43	43	C	103	TE	36-39	39-42	36-41	22
VNMF	43	43	C	183	TE	36-39	39-42	36-41	22
VNMF	43	43	C	223	TE	36-39	39-42	36-41	22
VNMF	46	46	C	62	TE	39-42	42-45	39-44	22
VNMF	46	46	C	103	TE	39-42	42-45	39-44	22
VNMF	46	46	C	183	TE	39-42	42-45	39-44	22
VNMF	46	46	C	223	TE	39-42	42-45	39-44	22

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

COVEREDSEAL STRAIGHT

Product Code									
	Proximal Graft Diameter (mm)	Distal Graft Diameter (mm)		Stent Graft Covered Length (mm)		Vessel Diameter: TAA, PAU (mm)	Vessel Diameter: Dissection (mm)	Vessel Diameter: BTAI (mm)	Catheter Outer Diameter (Fr)
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VNMC	31	31	C	223	TE	26-28	29-30	26-29	20
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VNMC	34	34	C	223	TE	28-31	31-33	28-32	20
VNMC	37	37	C	52	TE	30-33	34-36	30-35	20
VNMC	37	37	C	90	TE	30-33	34-36	30-35	20
VNMC	37	37	C	182	TE	30-33	34-36	30-35	20
VNMC	37	37	C	223	TE	30-33	34-36	30-35	20
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VNMC	40	40	C	95	TE	33-36	37-39	33-38	22
VNMC	40	40	C	175	TE	33-36	37-39	33-38	22
VNMC	40	40	C	218	TE	33-36	37-39	33-38	22
VNMC	43	43	C	55	TE	36-39	39-42	36-41	22
VNMC	43	43	C	95	TE	36-39	39-42	36-41	22
VNMC	43	43	C	175	TE	36-39	39-42	36-41	22
VNMC	43	43	C	218	TE	36-39	39-42	36-41	22
VNMC	46	46	C	55	TE	39-42	42-45	39-44	22
VNMC	46	46	C	95	TE	39-42	42-45	39-44	22
VNMC	46	46	C	175	TE	39-42	42-45	39-44	22
VNMC	46	46	C	218	TE	39-42	42-45	39-44	22

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