

Advancing Aortic Technologies
with Purpose™



Our purpose is to develop simple, elegant solutions that address cardiac and vascular surgeons' most difficult challenges in treating patients with diseases of the aorta and to deliver breakthrough technologies of unsurpassed quality that have far-reaching impact.

When the need is aortic, the solution is Artivion

Our intentional focus on the aorta and collaboration with the world's foremost cardiac and vascular surgeons allow us to leverage our combined expertise in the development of new, innovative, life-changing aortic-centric technologies.

NOTE: All products and indications are not available/approved in all markets.
Please contact your local Artivion representative for details.

**Made to fit your patients.
Made to fit you.**



ARTIVION

E-vita[®] Open Neo
Hybrid Stent Graft System

Product Highlights

Based on over ten years of clinical experience, E-vita Open Neo is the next-generation hybrid graft system for aortic arch and descending thoracic aorta repair with the Frozen Elephant Trunk technique.

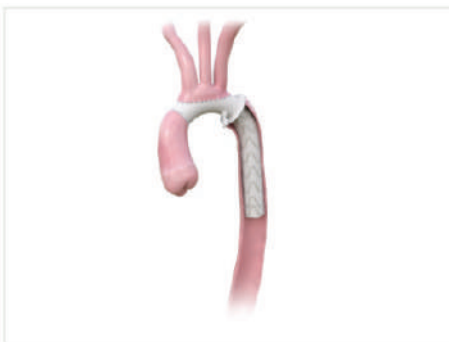


ADAPTING TO PATIENT'S DISEASE

- Each disease requires unique technique and oversizing strategies. E-vita Open Neo has been created with three stent graft configurations and dedicated designs of the vascular and stent graft sections.
- The three diameters of the vascular section allow for reproducible anastomosis. The full range of options of the stent graft section provides adequate oversizing for both aneurysms and dissections.¹

CONTROL IN YOUR HANDS

- The new compact delivery system allows easy positioning of the device, and deployment can be performed in a controlled fashion with progressive expansion of the stent graft section.¹



STRAIGHT CONFIGURATION

Island Technique
Collar Anastomosis in Zone 2/3



BRANCHED CONFIGURATION

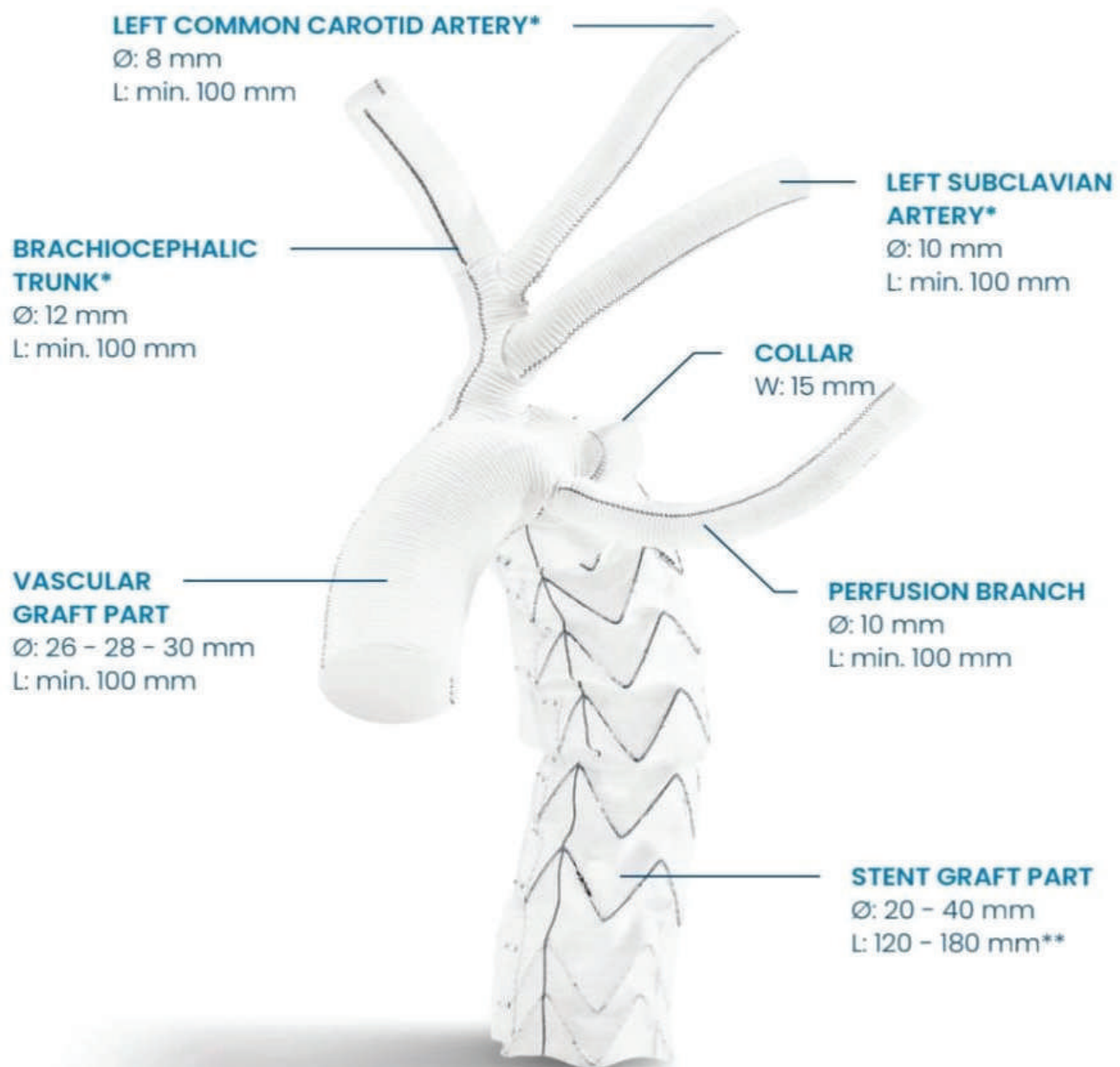
Sequential Anastomoses
Collar Anastomosis in Zone 1/2/3



TRIFURCATED CONFIGURATION

Sequential Anastomoses
Collar Anastomosis in Zone 0/1

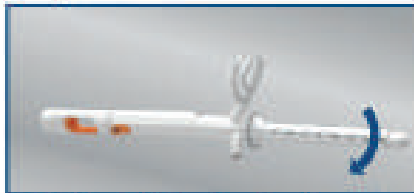
Made to fit Your Patients. Made to fit You.



* branches for supraortic trunks available only on the Branched and Trifurcated configurations
** please refer to the IFU for the specific length of each configuration and diameter

E-vita Open Neo Implantation Technique

Preparation



1 If a guide wire is not used, pre-shape the shaft of the device according to the anatomy and the implantation zone.



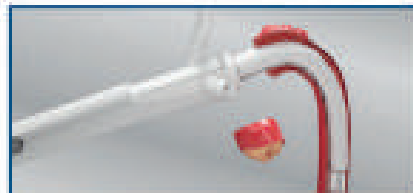
2 If a guidewire is used, remove the protective wire and then load the system on the stiff guide wire that has been previously positioned.



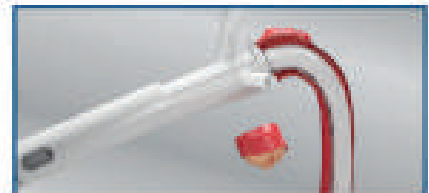
Introduction



3 Introduce the device in the open thoracic aorta over the guide wire, or directly if no wire is used.



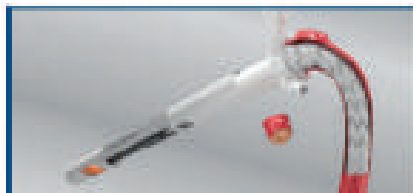
4 Advance the device until the collar aligns with the transected aorta adjusting the orientation to the target position of the head vessels.



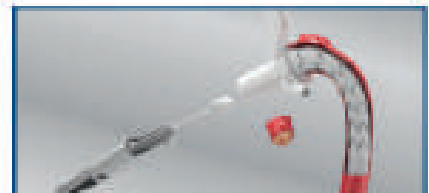
Deployment & Removal



5 Press the orange release trigger and pull the release handle straight backwards.

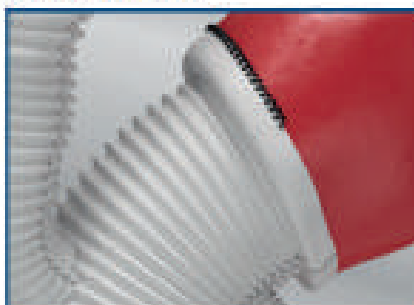


6 Continue retraction until the delivery system locks.



7 Remove the system with a slight rotation. If no guide wire was used, remove the protective flap before device removal.

Conclusion



8 Perform distal anastomosis at the collar. At this point distal body perfusion can begin via the perfusion branch.



9 Perform proximal anastomosis and anastomoses of the head vessel (depending on the chosen design).

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21-0-000000-000-000-000

Always check instructions for use prior application.

Sizing Sheet – Aneurysm

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E-vita® Open Neo
Hybrid Stent Graft System

Patient initials

Date of birth

Gender f m

Implantation date

Date of Assessment

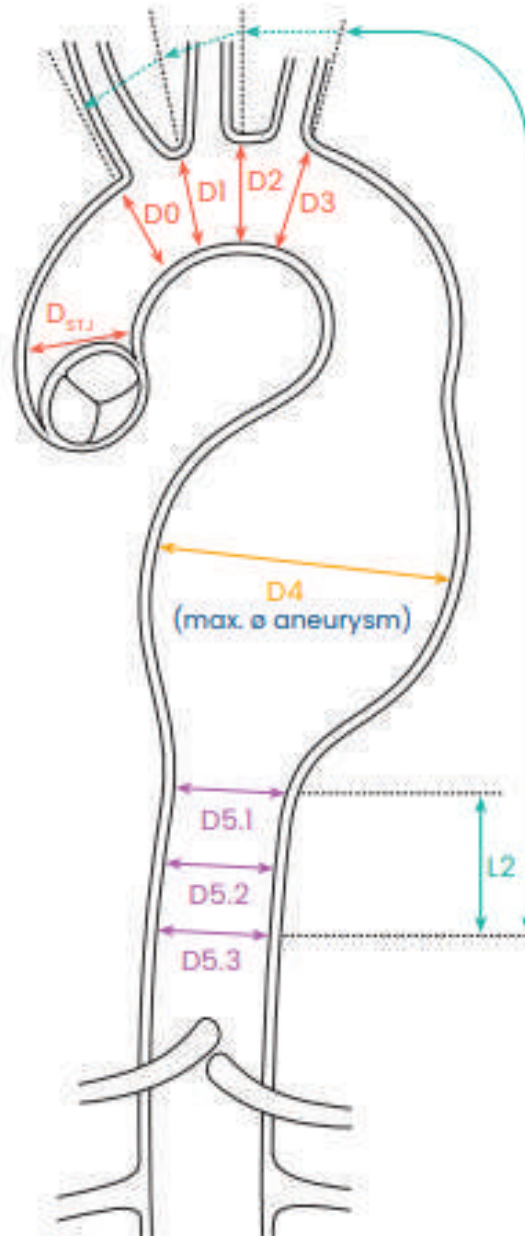
Evaluated by

Hospital/City/Country

Date CT/MRI/Slice thick.

Head vessel diameter (mm)

BCT	LCCA	LSA
<input type="text"/>	<input type="text"/>	<input type="text"/>



Zone of collar anastomosis
0 1 2 3

Aortic arch diameter (mm)

D_{STJ} =

D0 =

D1 =

D2 =

D3 =

Device choice

Device configuration

straight

branched

trifurcated

Diameter aneurysm

D4 =

Length (mm)

L1 =

L2 =

L1 = total outer length
L2 = 25, 28, 33 mm according to the diameter of the device. Please refer to the IFU

Distal sealing zone (mm)

D5.1 =

D5.2 =

D5.3 =

Comments

Ordering Information



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JOTEC GmbH, Lotzenböcker 31, 72376 Hechingen, Germany

JT-SIA-0050200-EN v02 II/2022

Sizing Sheet – Dissection

ARTIVION

E-vita[®] Open Neo
Hybrid Stent Graft System

Patient initials _____
 Date of birth _____
 Gender f m
 Implantation date _____

Date of Assessment _____
 Evaluated by _____
 Hospital/City/Country _____
 Date CT/MRI/Slice thick. _____

Pathology

Acute
 Subacute
 Chronic
 Dissection ends at: _____

Head vessel diameter [mm]

BCT	LCCA	LSA

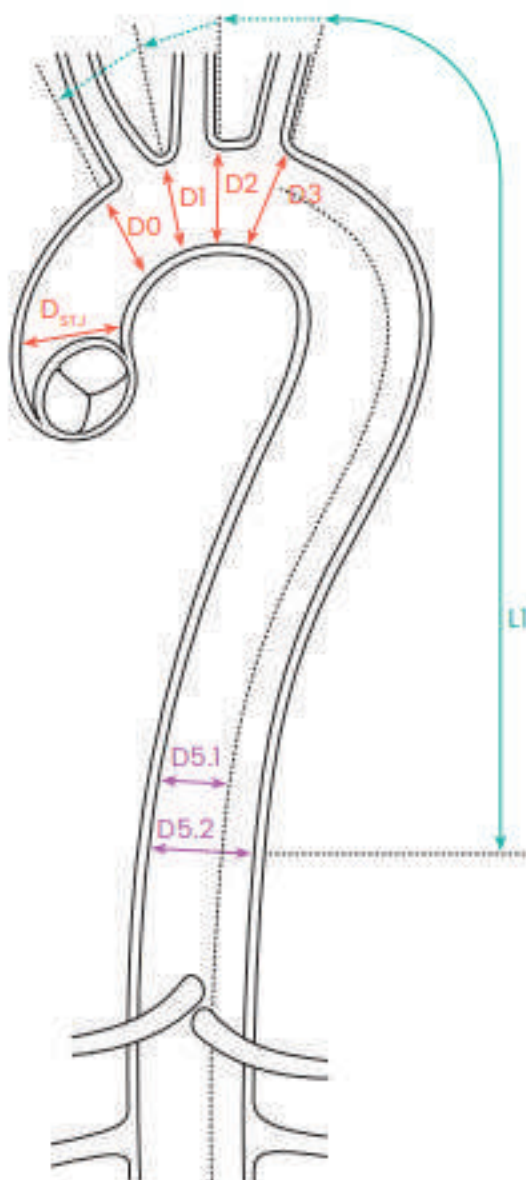
Dissected

Device choice

Device configuration

straight
 branched
 trifurcated

Comments



Zone of collar anastomosis

0 1 2 3

Aortic arch diameter [mm]

D_{stJ} = _____
 D0 = _____
 D1 = _____
 D2 = _____
 D3 = _____

Length [mm]

L1 = _____
L1 = total outer length

Distal sealing zone [mm]

D5.1 = _____
 D5.2 = _____

Ordering
Information



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JOTEC GmbH, Labenöcker 23, 72379 Hechingen, Germany

JT-SIG-0951200-EN V02 11/2022

E-vita® Open Neo

Hybrid Stent Graft System

Ordering Information (all measurements are in mm)

Straight



Catalog Number	Ø Vascular Graft Part	Ø Stent Graft Part	Length Stent Graft Part
95H02620U120-C01	26	20	120
95H02624U120-C01	26	24	120
95H02624U175-C01	26	24	175
95H02626U120-C01	26	26	120
95H02628U120-C01	28	28	120
95H02628U180-C01	28	28	180
95H03030U120-C01	30	30	120
95H03030U180-C01	30	30	180
95H03033U130-C01	30	33	130
95H03033U180-C01	30	33	180
95H03036U130-C01	30	36	130
95H03036U180-C01	30	36	180
95H03040U130-C01	30	40	130
95H03040U180-C01	30	40	180

Branched



Catalog Number	Ø Vascular Graft Part	Ø Stent Graft Part	Length Stent Graft Part
95H02622U120-C02	26	22	120
95H02624U120-C02	26	24	120
95H02624U175-C02	26	24	175
95H02626U120-C02	26	26	120
95H02626U180-C02	26	26	180
95H02628U120-C02	28	28	120
95H02628U180-C02	28	28	180
95H03030U120-C02	30	30	120
95H03030U180-C02	30	30	180
95H03033U130-C02	30	33	130
95H03033U180-C02	30	33	180
95H03036U130-C02	30	36	130
95H03036U180-C02	30	36	180
95H03040U130-C02	30	40	130
95H03040U180-C02	30	40	180

Trifurcated



Catalog Number	Ø Vascular Graft Part	Ø Stent Graft Part	Length Stent Graft Part
95H02624U175-C03	26	24	175
95H02626U180-C03	26	26	180
95H02628U180-C03	28	28	180
95H03030U180-C03	30	30	180
95H03033U180-C03	30	33	180
95H03036U180-C03	30	36	180
95H03040U180-C03	30	40	180

Sizes in italics are available on demand

Vascular Graft Part Length (without tension): 100mm on every configuration and size Perfusion Branch: diameter of 10mm and length without tension of minimum 100mm on every configuration and size



Branch Specifications

	Ø	Length
Branch BCT	12mm	min. 300mm
Branch LCCA	8mm	min. 300mm
Branch LSA	10mm	min. 100mm

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JOTEC GmbH, Lotzenacker 23, 72379 Hechingen, Germany

JT-ES-0950200-EN V02 05/2022

Woven Vascular Prosthesis



FlowWeave Bioseal

- Specific weaving techniques for high burst resistance and low dilatation^{1,2}
- Different internal and external surface structures enable blood flow optimization
- Aldehyde and isocyanate free Bioseal impregnation using dehydrothermal crosslinked collagen guarantees primary sealing of the blood in the prosthesis²
- Concentric crimping and the guide line allow precise positioning of the prosthesis
- Soft and supple texture for easy handling

ORDERING INFORMATION

Catalogue No.	Ø (mm)	Length (cm)
45ST1508	8	15
45ST3008	8	30
45ST1510	10	15
45ST3010	10	30
45ST1512	12	15
45ST3012	12	30
45ST1520	20	15
45ST3020	20	30
45ST1522	22	15
45ST3022	22	30
45ST1524	24	15
45ST3024	24	30
45ST1526	26	15

Catalogue No.	Ø (mm)	Length (cm)
45ST3026	26	30
45ST1528	28	15
45ST3028	28	30
45ST1530	30	15
45ST3030	30	30
45ST1532	32	15
45ST3032	32	30
45ST1534	34	15
45ST3034	34	30



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References:

1. JOTEC Single, subsidiary of Covidien, Inc.: Internal mechanical seal study
2. Bell C-M. (Study on the issue of expansion of textile implants) – Internal data, JOTEC Street
3. Desmeting J, J.A. and Mares, M. C.: Clinical Experience with a Collagen-impregnated Covered Device (Vascular Stent) Arch of Vascular Surg 1993, 4(3): 339-352

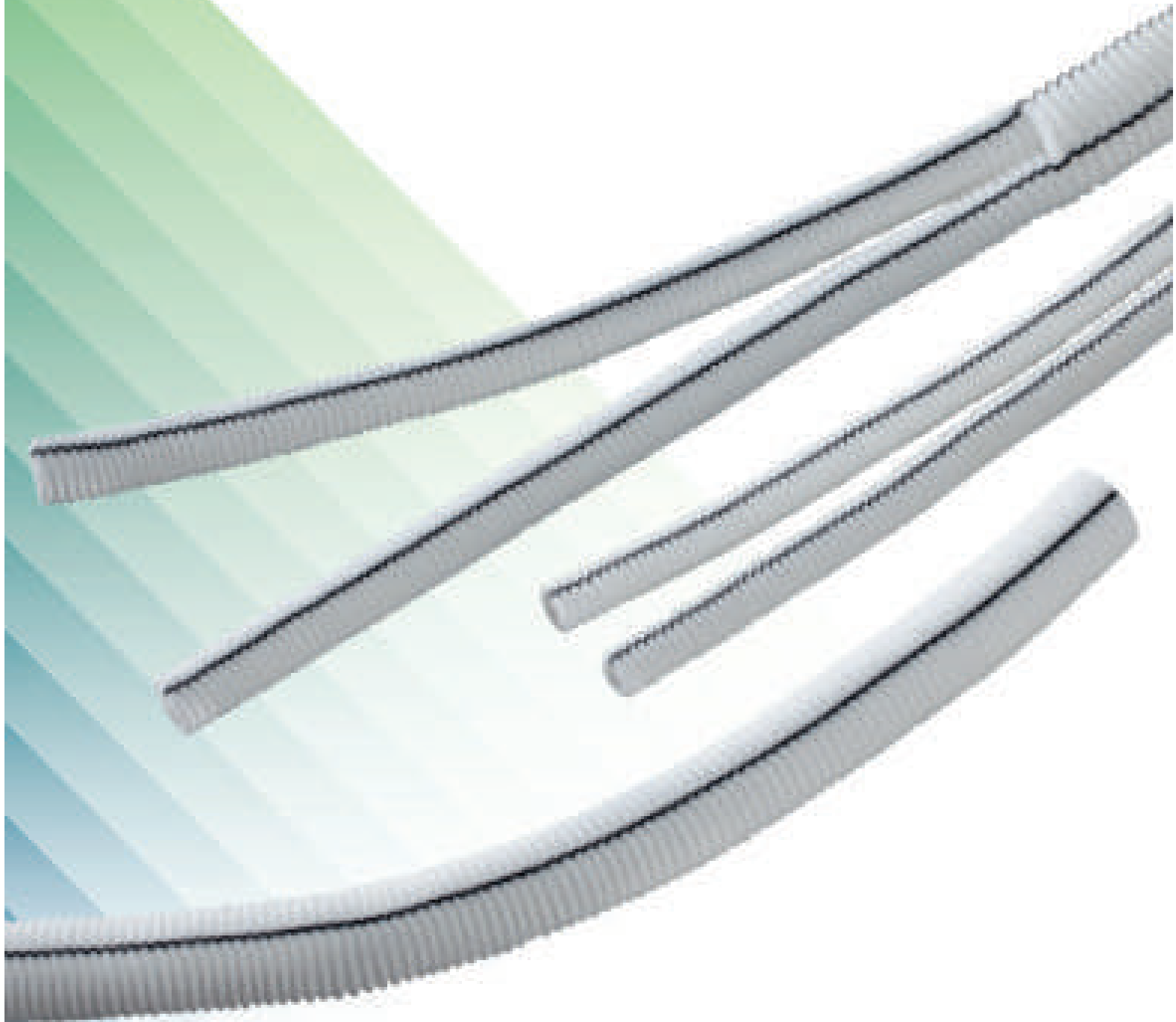
FlowWeave FlowWeave Bioseal is indicated to prevent or minimize distal embolic occlusions. The primary indication for FlowWeave Bioseal is vascular replacement in the thoracic and abdominal aorta, although it can also be used in peripheral vascular applications involving vessel diameters of at least 5 mm.

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Knitted Vascular Prosthesis



ARTIVION | **FlowNit Bioseal**

FlowNit Bioseal

Knitted vascular prostheses:

- Specific knitting techniques for high burst resistance and low dilatation¹
- Aldehyde and isocyanate free BIOSEAL impregnation using dehydrothermal crosslinked collagen guarantees primary sealing of the blood in the prosthesis²
- Concentric crimping and the guide line allow precise positioning of the prosthesis
- Soft and supple texture for easy handling

Ordering Information

Straight prostheses

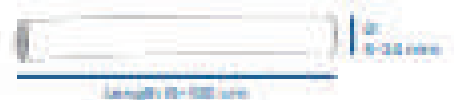
Catalogue No.	Ø (mm)	Length (cm)
355T1505	5	15
355T1506	6	15
355T1508	8	15
355T1507	7	15
355T1509	7	30
355T1507	7	60
355T1508	8	15
355T1508	8	30
355T1508	8	60
355T1508	8	100
355T1510	10	15
355T1510	10	30
355T1510	10	60
355T1510	10	100

Straight prostheses

Catalogue No.	Ø (mm)	Length (cm)
355T1511	11	15
355T1511	11	30
355T1511	11	60
355T1511	11	100
355T1512	12	15
355T1512	12	30
355T1512	12	60
355T1512	12	100
355T1513	13	15
355T1513	13	30
355T1513	13	60
355T1513	13	100
355T1514	14	15
355T1514	14	30
355T1514	14	60
355T1514	14	100

Bifurcated prostheses

Catalogue No.	Ø (mm)	Length (cm)
355T1515	12x6	45
355T1517	14x7	45
355T1518	16x8	45
355T1519	18x9	45
355T1519	20x10	45
355T1511	20x11	45
355T1512	24x12	45



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References

1. JOTEC GmbH, subsidiary of CryoLife, Inc., Internal mechanical test data
2. Bell C-M. (Study on the issue of expansion of knitted implants) - (Internal data, JOTEC GmbH)
3. Ferkling J. J.A. and Moore W. S. Clinical Experience with a Collagen-impregnated Knitted Downer Vascular Graft. Ann of Vascular Surg 1999, 3(1): 249-252

Indications: FlowNit Bioseal is indicated in extra- and intra-cranial and vascular aneurysms. FlowNit Bioseal is primarily indicated for vascular replacement in the extra-cranial carotid and vertebral vascular applications involving vessel diameters of at least 3 mm.

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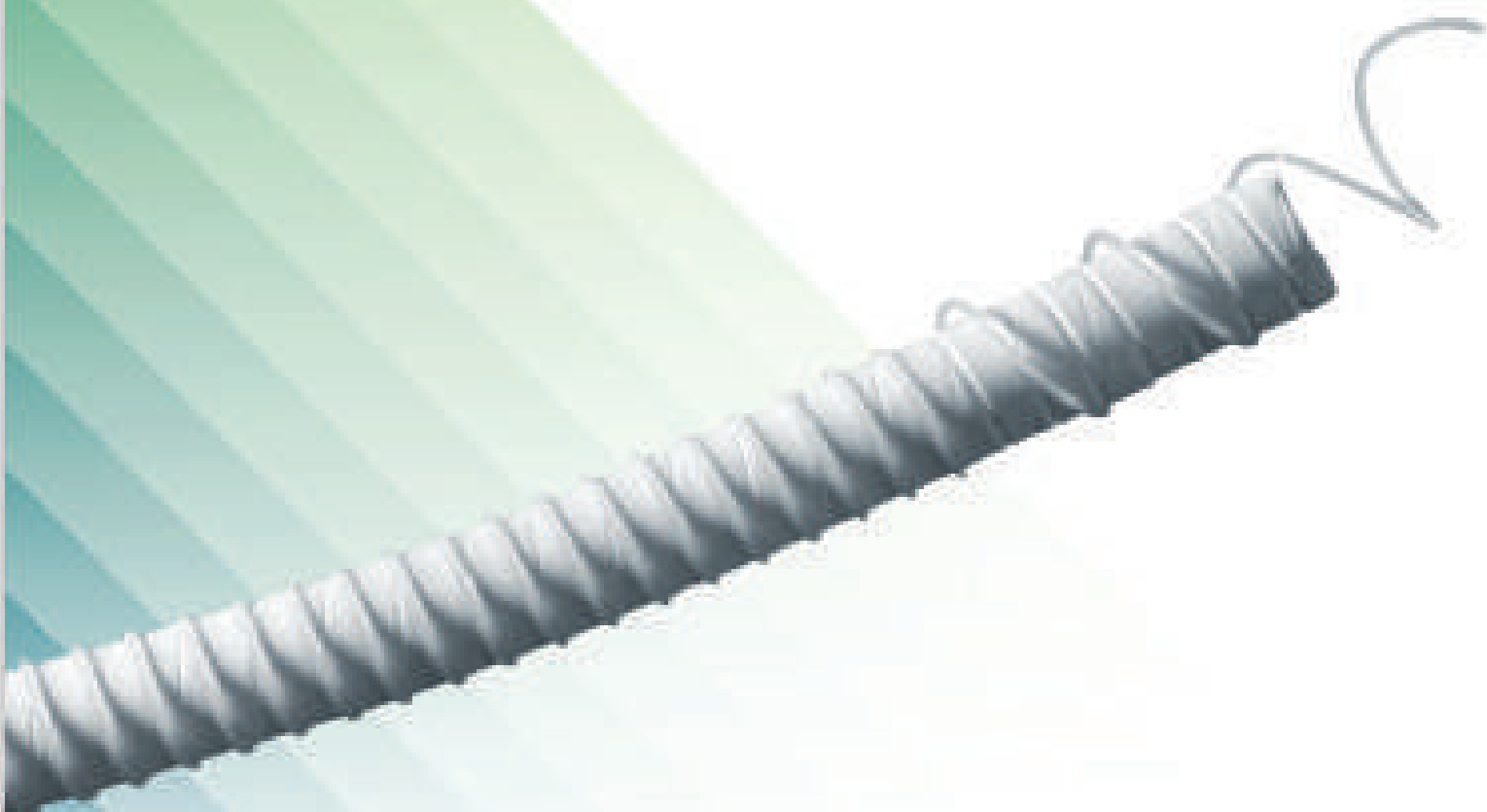
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Fax: +170-888-2782
E-mail: FlowNit@artivion.com

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ART-01-000009-01-EN-V01.1/2012

Peripheral Treatment with ePTFE



FlowLine Bipore

- Bipore design with two different fibril lengths for low thrombogenicity
- An additional ePTFE wrap for enhanced suture retention and high burst strength
- Unique guideline indicates diameter and wall thickness of the graft
- Helical reinforcement for increased resistance against kinking and compression
- Excellent and pliable handling and suture behaviour
- Simple and easy removal of the spiral reinforcement

Ordering Information

Length (cm)	Diameter (mm)	Thin Wall	Thin Wall Reinforced
		Catalogue No.	Catalogue No.
10	5	10TW1005N	10TW1005S
20	6	10TW2006N	-
20	7	10TW2007N	-
20	8	10TW2008N	-
40	5	10TW4005N	10TW4005S
40	6	10TW4006N	-
50	6	10TW5006N	10TW5006S
50	7	10TW5007N	10TW5007S
50	8	10TW5008N	10TW5008S
70	5	10TW7005N	10TW7005S
80	6	10TW8006N	10TW8006S
80	7	10TW8007N	10TW8007S
80	8	10TW8008N	10TW8008S

Length (cm)	Diameter (mm)	Standard Wall	Standard Wall Reinforced
		Catalogue No.	Catalogue No.
20	6	10SW2006N	-
20	7	10SW2007N	-
40	5	10SW4005N	-
50	6	10SW5006N	10SW5006S
50	7	10SW5007N	10SW5007S
50	8	10SW5008N	10SW5008S
70	5	10SW7005N	10SW7005S
80	5	10SW8005N	10SW8005S
80	7	10SW8007N	10SW8007S
80	8	10SW8008N	10SW8008S

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AT-22-000006-04 ver 12/2022

Every Day. Every Case.



ARTIVION

E-tegra™
Stent Graft System

Ordering Information

E-tgra Stent Graft System

01 Main Body



Catalog Number (Manufacturer Part/Trade)	Proximal Ø (mm)	Distal Ø (mm)	Total Frunk Length (mm)	Covered Length (mm)	OD Delivery System (F/less)
ART00000210-08	20	17	210	185	205.5
ART00000210-10	22	19	210	185	207.5
ART00000210-12	24	21	210	185	209.5
ART00000210-14	26	23	210	185	211.5
ART00000210-16	28	25	210	185	213.5
ART00000210-18	30	27	210	185	215.5
ART00000210-20	32	29	210	185	217.5
ART00000210-22	34	31	210	185	219.5
ART00000210-24	36	33	210	185	221.5
ART00000210-26	38	35	210	185	223.5
ART00000210-28	40	37	210	185	225.5
ART00000210-30	42	39	210	185	227.5

Special sizes on demand only

ART00000210-32	44	41	210	185	229.5
ART00000210-34	46	43	210	185	231.5
ART00000210-36	48	45	210	185	233.5
ART00000210-38	50	47	210	185	235.5
ART00000210-40	52	49	210	185	237.5
ART00000210-42	54	51	210	185	239.5
ART00000210-44	56	53	210	185	241.5
ART00000210-46	58	55	210	185	243.5
ART00000210-48	60	57	210	185	245.5
ART00000210-50	62	59	210	185	247.5

02 Contralateral Leg



Catalog Number	Proximal Ø (mm)	Distal Ø (mm)	Usable Length (mm)	Total Length (mm)	OD Delivery System (F/less)
ART00000110-10	10	10	60	60	215.5
ART00000110-12	12	12	60	60	217.5
ART00000110-14	14	14	60	60	219.5
ART00000110-16	16	16	60	60	221.5
ART00000110-18	18	18	60	60	223.5
ART00000110-20	20	20	60	60	225.5
ART00000110-22	22	22	60	60	227.5
ART00000110-24	24	24	60	60	229.5
ART00000110-26	26	26	60	60	231.5
ART00000110-28	28	28	60	60	233.5
ART00000110-30	30	30	60	60	235.5
ART00000110-32	32	32	60	60	237.5
ART00000110-34	34	34	60	60	239.5
ART00000110-36	36	36	60	60	241.5
ART00000110-38	38	38	60	60	243.5
ART00000110-40	40	40	60	60	245.5
ART00000110-42	42	42	60	60	247.5
ART00000110-44	44	44	60	60	249.5
ART00000110-46	46	46	60	60	251.5
ART00000110-48	48	48	60	60	253.5
ART00000110-50	50	50	60	60	255.5
ART00000110-52	52	52	60	60	257.5
ART00000110-54	54	54	60	60	259.5
ART00000110-56	56	56	60	60	261.5
ART00000110-58	58	58	60	60	263.5
ART00000110-60	60	60	60	60	265.5
ART00000110-62	62	62	60	60	267.5
ART00000110-64	64	64	60	60	269.5
ART00000110-66	66	66	60	60	271.5
ART00000110-68	68	68	60	60	273.5
ART00000110-70	70	70	60	60	275.5
ART00000110-72	72	72	60	60	277.5
ART00000110-74	74	74	60	60	279.5
ART00000110-76	76	76	60	60	281.5
ART00000110-78	78	78	60	60	283.5
ART00000110-80	80	80	60	60	285.5
ART00000110-82	82	82	60	60	287.5
ART00000110-84	84	84	60	60	289.5
ART00000110-86	86	86	60	60	291.5
ART00000110-88	88	88	60	60	293.5
ART00000110-90	90	90	60	60	295.5
ART00000110-92	92	92	60	60	297.5
ART00000110-94	94	94	60	60	299.5
ART00000110-96	96	96	60	60	301.5
ART00000110-98	98	98	60	60	303.5
ART00000110-100	100	100	60	60	305.5

03 Iliac Extension



Catalog Number	Proximal Ø (mm)	Distal Ø (mm)	Usable Length (mm)	Total Length (mm)	OD Delivery System (F/less)
ART00000210-10	10	10	60	60	215.5
ART00000210-12	12	12	60	60	217.5
ART00000210-14	14	14	60	60	219.5
ART00000210-16	16	16	60	60	221.5
ART00000210-18	18	18	60	60	223.5
ART00000210-20	20	20	60	60	225.5
ART00000210-22	22	22	60	60	227.5
ART00000210-24	24	24	60	60	229.5
ART00000210-26	26	26	60	60	231.5
ART00000210-28	28	28	60	60	233.5
ART00000210-30	30	30	60	60	235.5
ART00000210-32	32	32	60	60	237.5
ART00000210-34	34	34	60	60	239.5
ART00000210-36	36	36	60	60	241.5
ART00000210-38	38	38	60	60	243.5
ART00000210-40	40	40	60	60	245.5
ART00000210-42	42	42	60	60	247.5
ART00000210-44	44	44	60	60	249.5
ART00000210-46	46	46	60	60	251.5
ART00000210-48	48	48	60	60	253.5
ART00000210-50	50	50	60	60	255.5
ART00000210-52	52	52	60	60	257.5
ART00000210-54	54	54	60	60	259.5
ART00000210-56	56	56	60	60	261.5
ART00000210-58	58	58	60	60	263.5
ART00000210-60	60	60	60	60	265.5
ART00000210-62	62	62	60	60	267.5
ART00000210-64	64	64	60	60	269.5
ART00000210-66	66	66	60	60	271.5
ART00000210-68	68	68	60	60	273.5
ART00000210-70	70	70	60	60	275.5
ART00000210-72	72	72	60	60	277.5
ART00000210-74	74	74	60	60	279.5
ART00000210-76	76	76	60	60	281.5
ART00000210-78	78	78	60	60	283.5
ART00000210-80	80	80	60	60	285.5
ART00000210-82	82	82	60	60	287.5
ART00000210-84	84	84	60	60	289.5
ART00000210-86	86	86	60	60	291.5
ART00000210-88	88	88	60	60	293.5
ART00000210-90	90	90	60	60	295.5
ART00000210-92	92	92	60	60	297.5
ART00000210-94	94	94	60	60	299.5
ART00000210-96	96	96	60	60	301.5
ART00000210-98	98	98	60	60	303.5
ART00000210-100	100	100	60	60	305.5

04 Aortic Extension



Catalog Number	Proximal Ø (mm)	Distal Ø (mm)	Covered Length (mm)	OD Delivery System (F/less)
ART00000110-10	10	10	60	215.5
ART00000110-12	12	12	60	217.5
ART00000110-14	14	14	60	219.5
ART00000110-16	16	16	60	221.5
ART00000110-18	18	18	60	223.5
ART00000110-20	20	20	60	225.5
ART00000110-22	22	22	60	227.5
ART00000110-24	24	24	60	229.5
ART00000110-26	26	26	60	231.5
ART00000110-28	28	28	60	233.5
ART00000110-30	30	30	60	235.5
ART00000110-32	32	32	60	237.5
ART00000110-34	34	34	60	239.5
ART00000110-36	36	36	60	241.5
ART00000110-38	38	38	60	243.5
ART00000110-40	40	40	60	245.5
ART00000110-42	42	42	60	247.5
ART00000110-44	44	44	60	249.5
ART00000110-46	46	46	60	251.5
ART00000110-48	48	48	60	253.5
ART00000110-50	50	50	60	255.5
ART00000110-52	52	52	60	257.5
ART00000110-54	54	54	60	259.5
ART00000110-56	56	56	60	261.5
ART00000110-58	58	58	60	263.5
ART00000110-60	60	60	60	265.5
ART00000110-62	62	62	60	267.5
ART00000110-64	64	64	60	269.5
ART00000110-66	66	66	60	271.5
ART00000110-68	68	68	60	273.5
ART00000110-70	70	70	60	275.5
ART00000110-72	72	72	60	277.5
ART00000110-74	74	74	60	279.5
ART00000110-76	76	76	60	281.5
ART00000110-78	78	78	60	283.5
ART00000110-80	80	80	60	285.5
ART00000110-82	82	82	60	287.5
ART00000110-84	84	84	60	289.5
ART00000110-86	86	86	60	291.5
ART00000110-88	88	88	60	293.5
ART00000110-90	90	90	60	295.5
ART00000110-92	92	92	60	297.5
ART00000110-94	94	94	60	299.5
ART00000110-96	96	96	60	301.5
ART00000110-98	98	98	60	303.5
ART00000110-100	100	100	60	305.5

05 Aorto-Uni-Iliac



ART00000210-10	10	10	100	215.5
ART00000210-12	12	12	100	217.5
ART00000210-14	14	14	100	219.5
ART00000210-16	16	16	100	221.5
ART00000210-18	18	18	100	223.5
ART00000210-20	20	20	100	225.5
ART00000210-22	22	22	100	227.5
ART00000210-24	24	24	100	229.5
ART00000210-26	26	26	100	231.5
ART00000210-28	28	28	100	233.5
ART00000210-30	30	30	100	235.5
ART00000210-32	32	32	100	237.5
ART00000210-34	34	34	100	239.5
ART00000210-36	36	36	100	241.5
ART00000210-38	38	38	100	243.5
ART00000210-40	40	40	100	245.5
ART00000210-42	42	42	100	247.5
ART00000210-44	44	44	100	249.5
ART00000210-46	46	46	100	251.5
ART00000210-48	48	48	100	253.5
ART00000210-50	50	50	100	255.5
ART00000210-52	52	52	100	257.5
ART00000210-54	54	54	100	259.5
ART00000210-56	56	56	100	261.5
ART00000210-58	58	58	100	263.5
ART00000210-60	60	60	100	265.5
ART00000210-62	62	62	100	267.5
ART00000210-64	64	64	100	269.5
ART00000210-66	66	66	100	271.5
ART00000210-68	68	68	100	273.5
ART00000210-70	70	70	100	275.5
ART00000210-72	72	72	100	277.5
ART00000210-74	74	74	100	279.5
ART00000210-76	76	76	100	281.5
ART00000210-78	78	78	100	2

Hypogastric Artery Matters



ARTIVION

E-liac[®]

Stent Graft System

Ordering Information

E-Iliac Stent Graft System



01 Aorto-Iliac Aneurysms

Catalog Number	Proximal Ø (mm)	Distal Ø (mm)	Total Length (mm)	Proximal Length (mm)	Distal Length (mm)	OO Delivery System (F (mm))
T20100100100	32	32	87	32	55	32/32
T20100100150	32	32	97	32	65	32/32
T20100100200	32	32	107	32	75	32/32

Special sizes on demand only

T20100100250	32	32	117	32	85	32/32
T20100100300	32	32	127	32	95	32/32
T20100100350	32	32	137	32	105	32/32



02 Isolated Iliac Aneurysms

Catalog Number	Proximal Ø (mm)	Distal Ø (mm)	Total Length (mm)	Proximal Length (mm)	Distal Length (mm)	OO Delivery System (F (mm))
T20100100100	32	32	100	32	68	32/32
T20100100150	32	32	110	32	78	32/32
T20100100200	32	32	120	32	88	32/32
T20100100250	32	32	130	32	98	32/32
T20100100300	32	32	140	32	108	32/32

Special sizes on demand only

T20100100350	32	32	150	32	118	32/32
T20100100400	32	32	160	32	128	32/32
T20100100450	32	32	170	32	138	32/32
T20100100500	32	32	180	32	148	32/32
T20100100550	32	32	190	32	158	32/32

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AT-00-000000-001-001-000000

Making the Revolutionary Routine.



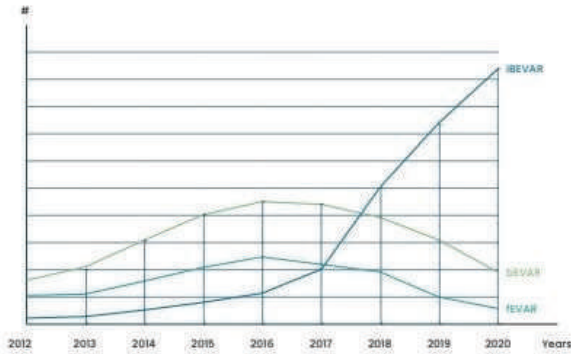
ARTIVION

E-nside™ TAAA
Multibranch Stent Graft System

Innovation at its Core.

Thoracoabdominal aortic aneurysms (TAAA) are still a major challenge for vascular physicians to deal with. Since the first customised branched endograft that was implanted in 2001, the technology has been evolving to treat patients with varied anatomies and complex pathologies. For the past 9 years E-xtra DESIGN ENGINEERING service has provided physicians with patient specific solutions for complex endovascular thoracoabdominal repairs: with more than 2200 projects for complex TAAA pathologies (and over 5000 customised solutions overall) made available for the treating physicians, a deep understanding of endovascular thoracoabdominal repair was developed.

E-nside TAAA is the result of years of experience in facing the challenges of the TAAA space and was born to respond to the unmet needs and challenges still present in this space.

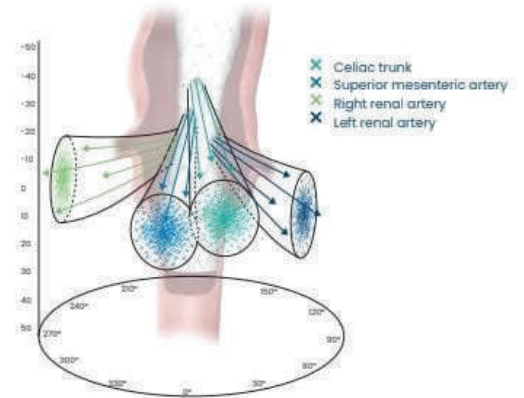


E-nside TAAA is the first **PRE-CANNULATED**, inner branch based, off-the-shelf solution for thoracoabdominal aneurysms accessible on the market.

Being available as an **OFF-THE-SHELF**, it's designed to treat both elective and emergency cases with a consistent approach.

The inner branch technology (iBEVAR) that E-nside TAAA is based on enables the treatment of varied anatomies with a **CONSISTENT APPROACH**. Internal tunnels can be used in narrow, kinked anatomies¹ as well as large, dilated aneurysms.²

Pre-cannulation is designed to **MINIMIZE** fluoroscopy and implantation **TIME** as well as contrast media necessary to finalize the procedure.



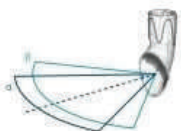
Distances and angles of CT, RRA and LRA in relation to SMA derived from over 300 CT scans analysed to maximise the applicability of the device.
Reprint with permission of L. Bertoglio³

Making the Revolutionary Routine.

Different Anatomies. A Consistent Approach.

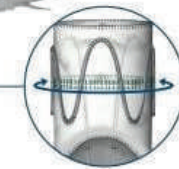
Thoracoabdominal aneurysms are a complex disease and unique to each patient's anatomy. A consistent approach can be a powerful tool to simplify this variability, inner branch technology (iBEVAR) has the potential to bring greater predictability to both decision making and treatment. Inner branch technology (iBEVAR) is designed to introduce benefits such as:

ENLARGED, ELLIPTICAL OUTLETS
Re-designed oval-shaped outlets to allow for greater flexibility of the covered stents.

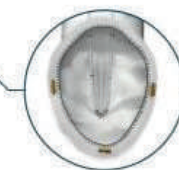


CT/SMA: $\alpha = 50^\circ$
RRA/LRA: $\beta = 70^\circ$

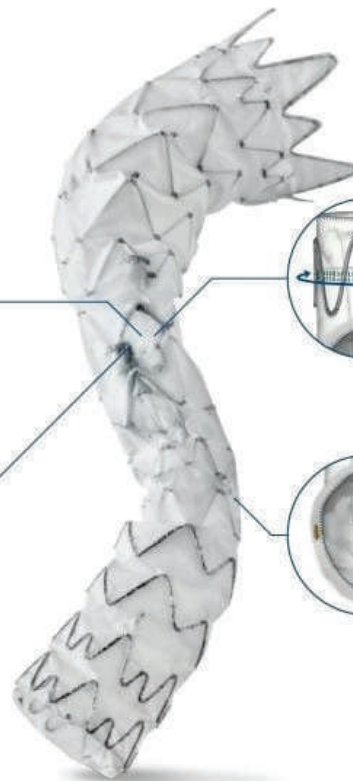
FIXATION SEAM
The proximal fixation of the inner branches allows longitudinal stability and support during cannulation of the target vessels.



MIGRATION REDUCTION
A thin 0.1mm PET thread added inside each inner branch designed to enhance the friction of any covered stent to help minimize migration.



ASYMMETRICAL COMPRESSION SPRINGS
Designed to maintain patency of the branches as well as avoid longitudinal compressions during catheterization of the target vessels.



Making the Revolutionary Routine.

Ordering Information

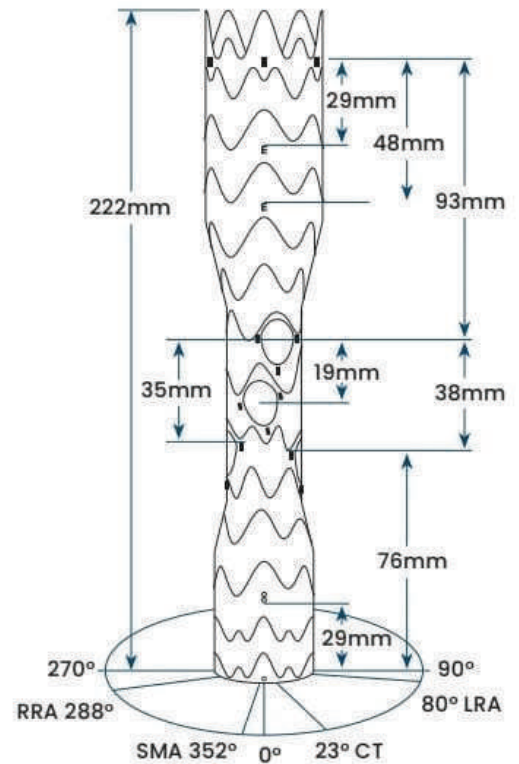
E-nside TAAA Multibranch Stent Graft System

Catalog Number	Ø Proximal (mm)	Ø Central (mm)	Ø Distal (mm)	Total Length (mm)	Ø Branch CT/ SMA (mm)	Ø Branch LRA/ RRA (mm)	OD delivery system (mm)
65MU332621-4B8866-00	33	24	26	222	8	6	8.2
65MU333021-4B8866-00	33	24	30	222	8	6	8.2
65MU382621-4B8866-00	38	24	26	222	8	6	8.2
65MU383021-4B8866-00	38	24	30	222	8	6	8.2

Oversizing Guidelines

Ø Distal Thoracic stent graft (mm)	Ø Proximal E-nside TAAA stent graft (mm)	Minimum length of landing zone (mm)
34	38	30
33		
32		
31		
30	33	
29		
28		
27		

Ø Infrarenal aorta (mm)	Ø Distal E-nside TAAA stent graft (mm)	Minimum length of landing zone (mm)
21	26	30
22		
23		
24		
25	30	
26		
27		



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I. M. Youssef et al (2018) - A Multicenter Experience With a New Fenestrated-Branched Device for Endovascular Repair of Thoracoabdominal Aortic Aneurysms, Journal of endovascular therapy, DOI: 10.1177/1526602817752147 2. A. Katsargyris et al (2018) - Early Experience with the Use of Inner Branches in Endovascular Repair of Complex Abdominal and Thoraco-abdominal Aortic Aneurysms, European Journal of vascular and endovascular surgery, DOI: 10.1016/j.ejvs.2018.01.024 3. V. Bilman, T. Cambiaghi, A. Grandi, N. Carta, G. Melissano, R. Chiesa, L. Bertoglio (2020) - Anatomical feasibility of a new off-the-shelf inner branch stent graft (E-nside for endovascular treatment of thoraco-abdominal aneurysms, European Journal of Cardio-Thoracic Surgery, Volume 58, Issue 6, Pages 1296-1303, <https://doi.org/10.1093/ejcts/ezaa276>

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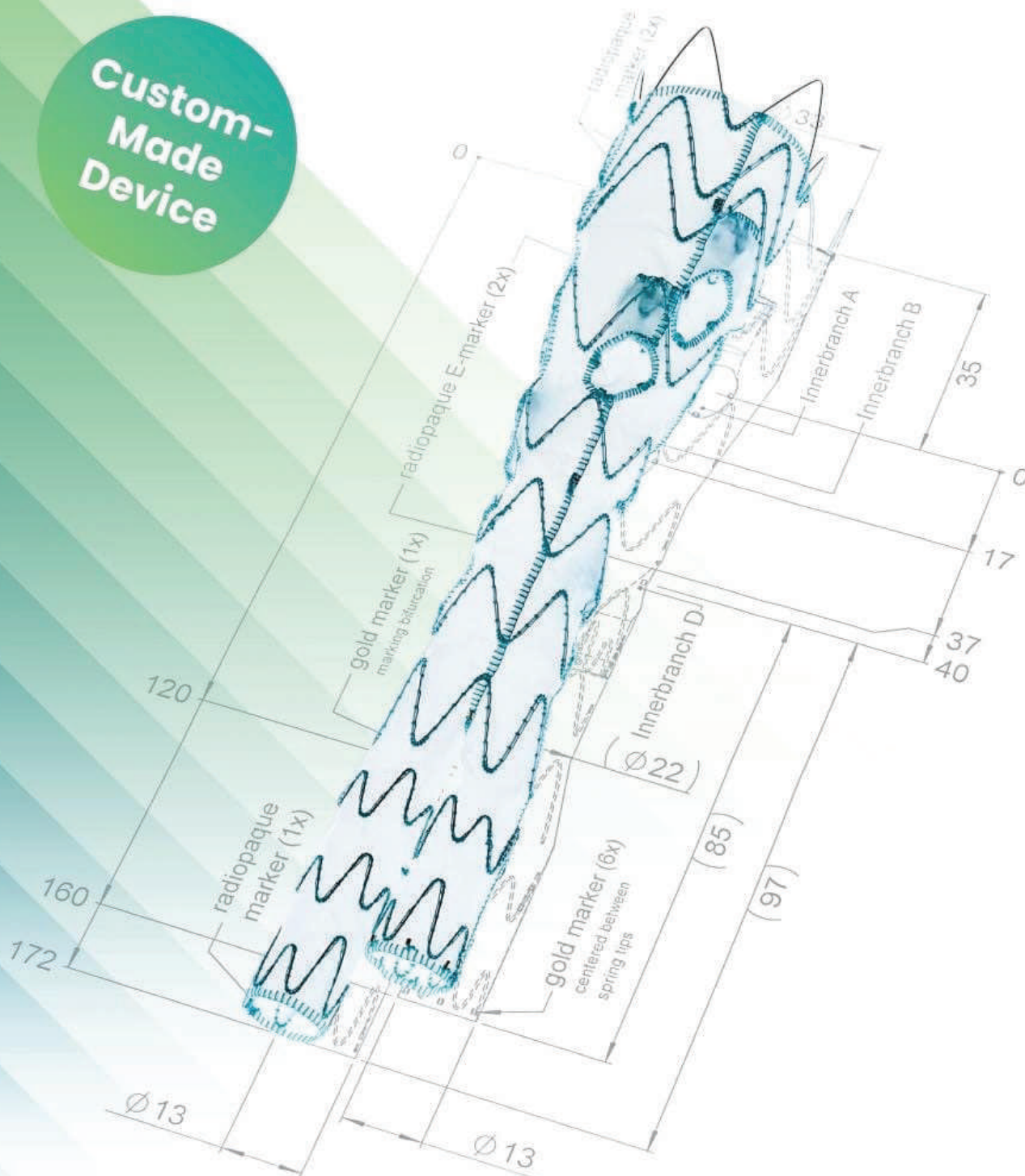
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JT-BR-0650200-EN V03 05/2022

Designed for Patient-Specific Anatomies

Custom-
Made
Device



ARTIVION

E-xtra Design MultiBranch
Stent Graft System

Meeting the Need with a Custom-Made Solution

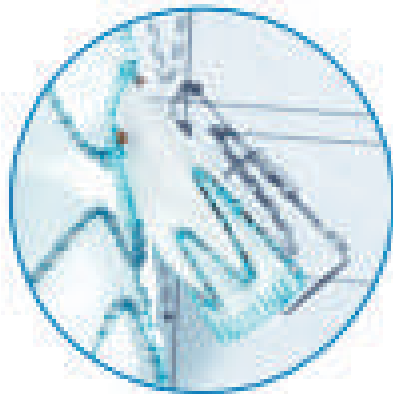
Thoracoabdominal aortic aneurysms (TAAA) are still a major challenge for vascular physicians to deal with. Since the first customised branched endograft that was implanted in 2001, the technology has been evolving to treat patients with varied anatomies and complex pathologies. For more than two decades, E-xtra Design Engineering service has provided physicians with patient-specific solutions for complex endovascular thoracoabdominal repairs.

The E-xtra Design MultiBranch Stent Graft System is indicated for the endovascular treatment of patients with:

- Type I, II, III, IV or V thoracoabdominal aneurysms
- Supra-, para- or juxtarenal abdominal aortic aneurysms
- Dissections extending to the thoracoabdominal aorta

Dimensions	Description
Main lumen	
Diameters	Proximal: 28 - 40 mm Median: 16 - 26 mm Distal: <ul style="list-style-type: none">• Bifurcated shape: 10, 13 mm• Tube shape: 16 - 40 mm
Minimum and maximum covered length (mm)	$105 \leq L \leq 235$ mm
Features	
Design	<ul style="list-style-type: none">• Outer branches• Inner branches• Semi branches• Twin branches• Scallops• Combination of the above mentioned features
Number	2 to 5 features
Dimensions	Diameters, lengths, widths and orientations are patient-specific

Full Range of Solutions for You



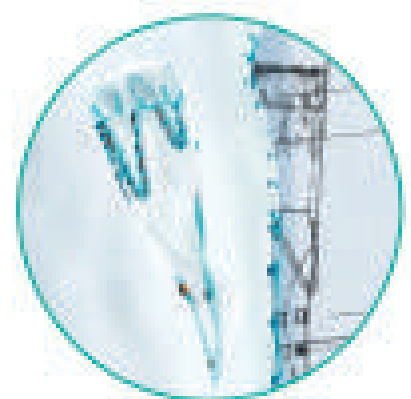
Outer branch



Twin branch



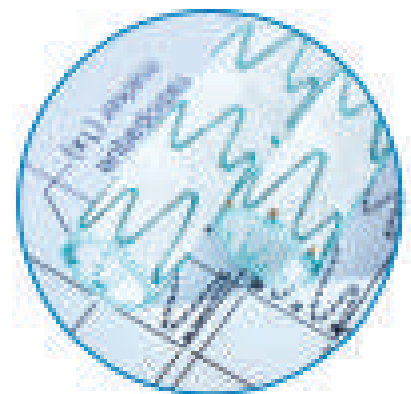
Semi branch



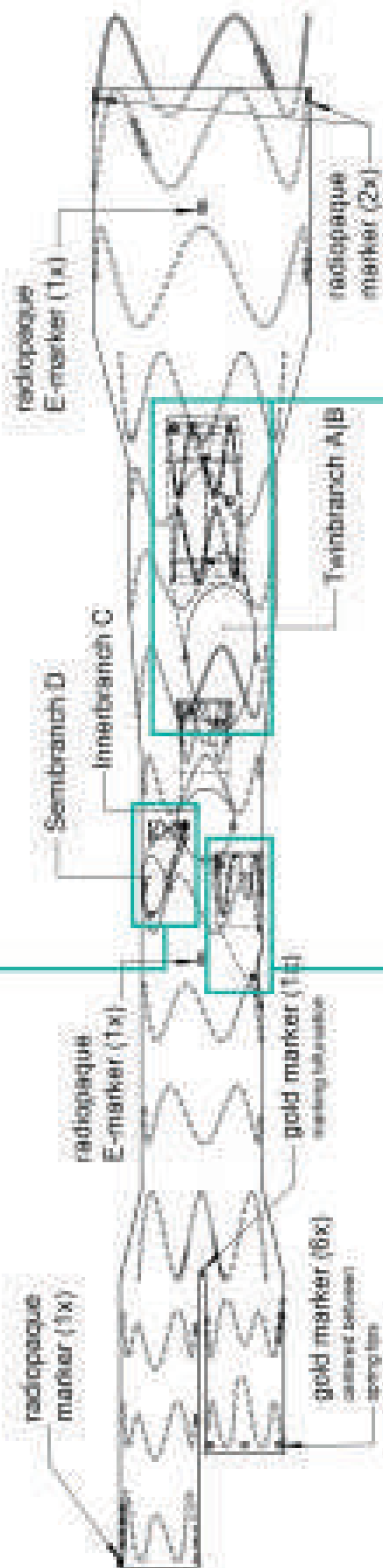
Inner branch



Scallop



Integrated bifurcation



Proven Device through Clinical Evidence

Objectives

Evaluate clinical and technical success as well as safety and feasibility of the **E-xtra Design MultiBranch Stent Graft System**, when used for the treatment of TAAA.

General Study Information

- Observational, prospective, multicenter study
- PCI: Prof. Schelzig, Düsseldorf, Germany
- 44 patients with thoracoabdominal aneurysm were treated
- 8 centers (7 DE, 1 ES)
- 3 years Follow-Up planned
- CoreLab: Dr. Kerezsy, Passau, Germany

Primary Endpoints	N (%) (ITT*=44)
All cause mortality at 30 days	0 (0 %)
Primary technical success	42** (95.5 %)
Reintervention at 30 days (Restoration of renal artery patency)	1 (2.3 %)

* Intent-To-Treat (ITT): defined as all subjects enrolled in the study who attended the procedure

** 2 Patent treated branch vessels 24h after the index procedure

First Interim Results (4-6 weeks Follow-Up)

Results	Other Custom-Made + Standard Multibranch Devices ^{1,2}	CONNECT PMCF Study ³
Early Mortality	3.7 - 8.8 %	0 %
Primary patency	96.6 - 97.3 %	98.1 %
Paraplegia	3.8 - 5 %	4.8 %
Paraparesis	Transient paraparesis: 11.4 % Permanent paraparesis: 2.2 %	2.4 %

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1. Fernandez, C. C. et al. Standard off-the-shelf versus custom-made multibranch thoracoabdominal aortic stent grafts. J Vasc Surg 63, 1208-1215, doi:10.1016/j.jvs.2015.11.035 (2016). 2. Hu, Z. et al. Multibranch Stent-Grafts for the Treatment of Thoracoabdominal Aortic Aneurysms: A Systematic Review and Meta-analysis. J Endovasc Ther 23, 626-633, doi:10.1177/1526602816647723 (2016). 3. Data on file at JOTEC GmbH.

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