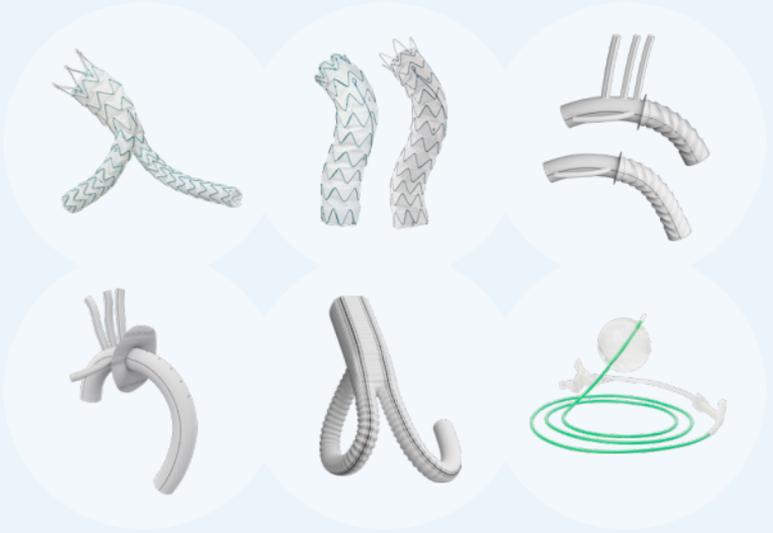


FDA APPROVED/CLEARED



CATALOG

Product Portfolio

**TERUMO**
AORTIC



PRODUCT PORTFOLIO

The Broadest Range of Solutions for your Patients

We are 100% committed to addressing every segment of the aorta and advancing aortic care. We make dedicated partners, delivering on today's and tomorrow's needs, through our **Endovascular**, **Hybrid** and **Surgical** platforms.

The Decision is Yours.



Discover more
terumoaortic.com



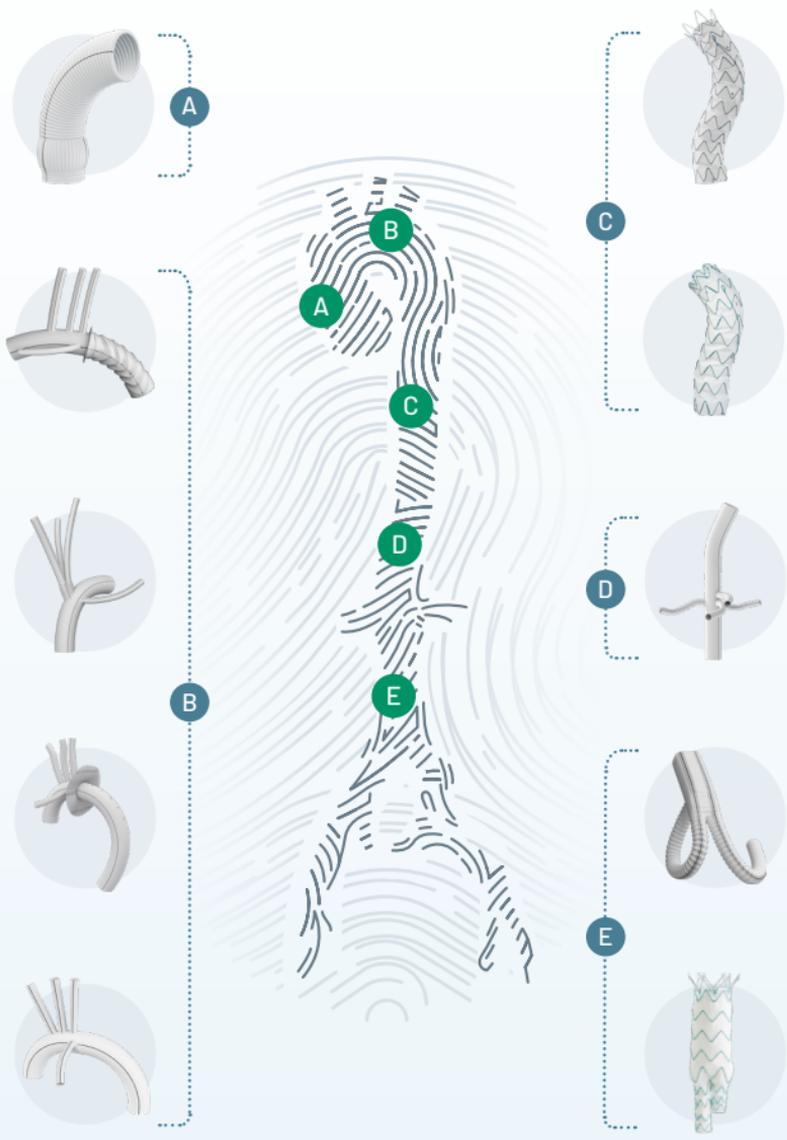
LinkedIn



VuMedi



X



This page illustrates a range of the complete Portfolio

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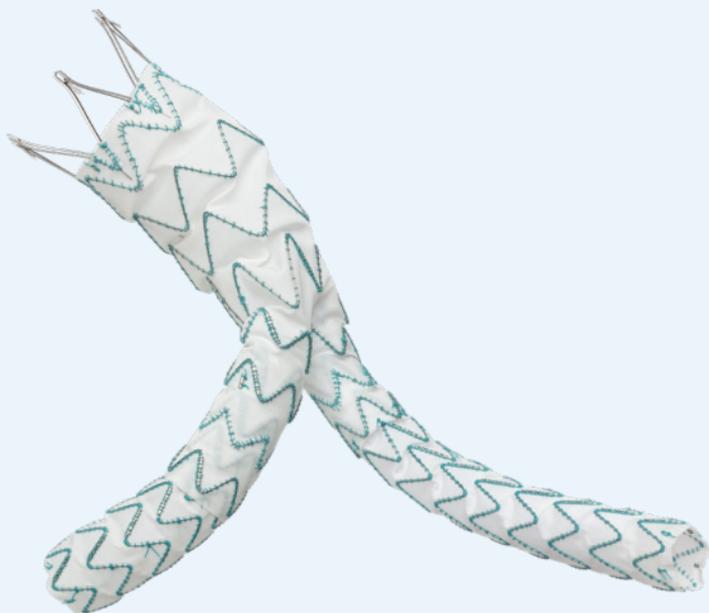
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TREO

Versatile By Design.
Fit For Any Anatomy*

*Per IFU

TREO[®]
ABDOMINAL STENT-GRAFT SYSTEM

Indications for Use

The **TREO® Abdominal Stent-Graft System** is indicated for the endovascular treatment of infrarenal abdominal aortic and aorto-iliac aneurysms with:

- ▶ Adequate iliac or femoral access compatible with the required delivery systems and accessories
- ▶ Minimum overall AAA treatment length (proximal landing location to distal landing location) of 13 cm
- ▶ Minimum overall length from the lowest renal artery to the aortic bifurcation of 9 cm

Proximal aortic landing zone with:

Infrarenal landing neck length of ≥ 15 mm

Infrarenal neck angle of ≤ 60 degrees

Suprarenal neck angle of ≤ 45 degrees

Aortic neck diameters ≥ 17 mm and ≤ 32 mm

Distal Iliac landing zone with:

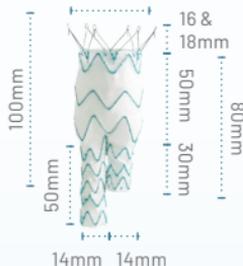
An inside diameter of 8mm-13mm
and a length of ≥ 10 mm

Or an inside diameter of > 13 mm-20mm
and a length of ≥ 15 mm

TREGO Sizing

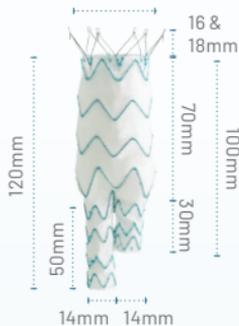
Bifurcate

Graft diameter
20, 22, 24, 26, 28,
30, 33 & 36mm



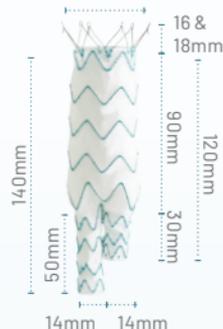
Bifurcate

Graft diameter
20, 22, 24, 26, 28,
30, 33 & 36mm



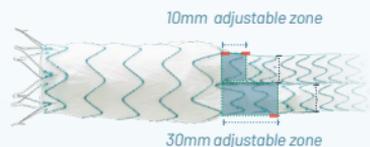
Bifurcate

Graft diameter
20, 22, 24, 26, 28,
30, 33 & 36mm



Cuff

Graft diameter
20, 22, 24, 26, 28,
30, 33 & 36mm



Leg Extension

Flare Late

15mm



17, 20 & 24mm

Taper Early

15mm



9, 11 & 13 mm

Straight Extension

15mm



15mm

Leg lengths
80, 100, 120,
140 & 160mm

Flare late and taper early are designed to better accommodate narrow aortic bifurcations.

Intuitive Mechanical Advantage for Controlled and Precise Device Deployment

	Main Body Delivery System		Leg Extension Delivery System	
Proximal Stent Graft Diameter	20-28mm	30-36mm	9-15mm	17-24mm
Profile Outer Diameter (OD)	18Fr	19Fr	13Fr	14Fr
				



1 PROXIMAL CLASP RELEASE

- ▶ Intuitive mechanism releases the bare/proximal stent

2 PRECISE DELIVERY SYSTEM

- ▶ The mechanical deployment provides controlled and stable stent-graft deployment



3 INTRODUCER AND LEAVE BEHIND SHEATH

- ▶ Low profile introducer and detachable, leave-behind sheath (18/19 Fr OD) with hydrophilic coating and Flexible tip for easier navigation

4 PROXIMAL CLASPING

- ▶ Proximal clasp allows for safe graft re-positioning and delivery system removal

TREGO Product Ordering Information



Device Type Key

X =
 B = Bifurcate
 L = Leg Extension
 C = Cuff
 S = Straight Extension

Main Body Bifurcate Stent-Graft

Aortic Outer Diameter	Proximal Diameter	Contralateral Length	Profile OD	MTO [^]	Catalog Number
17-18	20	80	18 Fr		28-B2-20-080U
	20	100	18 Fr	•	28-B2-20-100U
	20	120	18 Fr	•	28-B2-20-120U
18-19	22	80	18 Fr		28-B2-22-080U
	22	100	18 Fr		28-B2-22-100U
	22	120	18 Fr	•	28-B2-22-120U
19-21	24	80	18 Fr		28-B2-24-080U
	24	100	18 Fr		28-B2-24-100U
	24	120	18 Fr	•	28-B2-24-120U
21-23	26	80	18 Fr		28-B2-26-080U
	26	100	18 Fr		28-B2-26-100U
	26	120	18 Fr		28-B2-26-120U
23-25	28	80	18 Fr		28-B2-28-080U
	28	100	18 Fr		28-B2-28-100U
	28	120	18 Fr		28-B2-28-120U
25-27	30	80	19 Fr		28-B2-30-080U
	30	100	19 Fr		28-B2-30-100U
	30	120	19 Fr		28-B2-30-120U
27-30	33	80	19 Fr		28-B2-33-080U
	33	100	19 Fr		28-B2-33-100U
	33	120	19 Fr		28-B2-33-120U
30-32	36	80	19 Fr		28-B2-36-080U
	36	100	19 Fr		28-B2-36-100U
	36	120	19 Fr		28-B2-36-120U

[^]Made to Order products are pre-existing device configurations and are not part of the custom-made device program. They will be built upon receipt of Purchase Order and are subject to extended lead times.

Leg Extension Stent-Graft

Iliac Outer Diameter	Iliac Landing Zone Minimum Length	Leg Extension Distal Diameter	Covered Length	Profile OD	MTO [^]	Catalog Number
8	10	9	80	13 Fr	•	28-L2-09-080U
	10	9	100	13 Fr	•	28-L2-09-100U
	10	9	120	13 Fr		28-L2-09-120U
	10	9	140	13 Fr		28-L2-09-140U
	10	9	160	13 Fr		28-L2-09-160U
9	10	11	80	13 Fr		28-L2-11-080U
	10	11	100	13 Fr		28-L2-11-100U
	10	11	120	13 Fr		28-L2-11-120U
	10	11	140	13 Fr		28-L2-11-140U
	10	11	160	13 Fr		28-L2-11-160U
10-11	10	13	80	13 Fr		28-L2-13-080U
	10	13	100	13 Fr		28-L2-13-100U
	10	13	120	13 Fr		28-L2-13-120U
	10	13	140	13 Fr		28-L2-13-140U
	10	13	160	13 Fr		28-L2-13-160U
12-13	10	15	80	13 Fr		28-L2-15-080U
	10	15	100	13 Fr		28-L2-15-100U
	10	15	120	13 Fr		28-L2-15-120U
	10	15	140	13 Fr		28-L2-15-140U
	10	15	160	13 Fr		28-L2-15-160U
14-15	15	17	80	14 Fr		28-L2-17-080U
	15	17	100	14 Fr		28-L2-17-100U
	15	17	120	14 Fr		28-L2-17-120U
	15	17	140	14 Fr		28-L2-17-140U
	15	17	160	14 Fr		28-L2-17-160U
16-17	15	20	80	14 Fr		28-L2-20-080U
	15	20	100	14 Fr		28-L2-20-100U
	15	20	120	14 Fr		28-L2-20-120U
	15	20	140	14 Fr		28-L2-20-140U
	15	20	160	14 Fr		28-L2-20-160U
18-20	15	24	80	14 Fr		28-L2-24-080U
	15	24	100	14 Fr		28-L2-24-100U
	15	24	120	14 Fr		28-L2-24-120U
	15	24	140	14 Fr		28-L2-24-140U
	15	24	160	14 Fr		28-L2-24-160U

[^]Made to Order products are pre-existing device configurations and are not part of the custom-made device program. They will be built upon receipt of Purchase Order and are subject to extended lead times.

Proximal Cuff Extension Stent-Graft

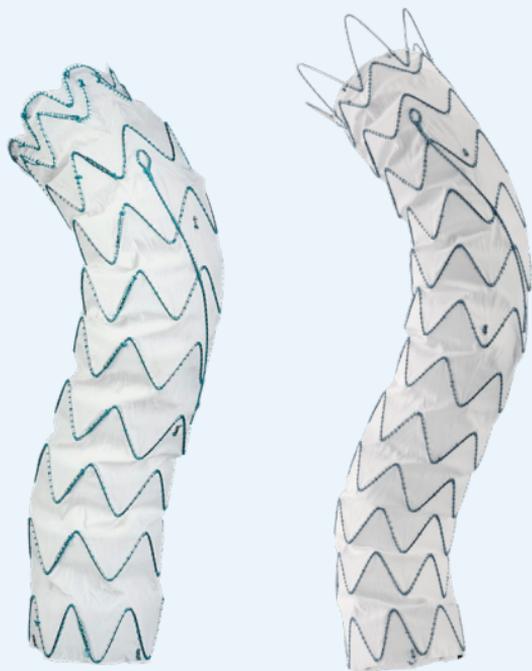
Aortic Outer Diameter	Proximal and Distal Diameter	Covered Length	Profile	MTO [^]	Catalog Number
17-18	20	40	18 Fr	•	28-C2-20-040U
	20	55	18 Fr	•	28-C2-20-055U
	20	70	18 Fr		28-C2-20-070U
18-19	22	40	18 Fr		28-C2-22-040U
	22	55	18 Fr	•	28-C2-22-055U
	22	70	18 Fr		28-C2-22-070U
19-21	24	40	18 Fr		28-C2-24-040U
	24	55	18 Fr	•	28-C2-24-055U
	24	70	18 Fr		28-C2-24-070U
21-23	26	40	18 Fr		28-C2-26-040U
	26	55	18 Fr	•	28-C2-26-055U
	26	70	18 Fr		28-C2-26-070U
23-25	28	40	18 Fr		28-C2-28-040U
	28	55	18 Fr	•	28-C2-28-055U
	28	70	18 Fr		28-C2-28-070U
25-27	30	40	19 Fr		28-C2-30-040U
	30	55	19 Fr	•	28-C2-30-055U
	30	70	19 Fr		28-C2-30-070U
27-30	33	40	19 Fr		28-C2-33-040U
	33	55	19 Fr	•	28-C2-33-055U
	33	70	19 Fr		28-C2-33-070U
30-32	36	40	19 Fr		28-C2-36-040U
	36	55	19 Fr	•	28-C2-36-055U
	36	70	19 Fr		28-C2-36-070U

Straight Extension Stent-Graft[#]

Iliac Outer Diameter	Iliac Landing Zone Minimum Length	Straight Extension Distal Diameter	Covered Length	Profile OD	Catalog Number
8	10	9	80	13 Fr	28-S2-09-080U
9	10	11	80	13 Fr	28-S2-11-080U
10-11	10	13	80	13 Fr	28-S2-13-080U

[^]Made to Order products are pre-existing device configurations and are not part of the custom-made device program. They will be built upon receipt of Purchase Order and are subject to extended lead times.

[#]Straight Extension Stent-Grafts indicated for use only with previously implanted Leg Extension Stent-Grafts with the same distal diameter.



RELAY® PRO

Uniquely Inspired for
Ideal Placement

RELAY® PRO
THORACIC STENT-GRAFT SYSTEM

Indications for Use

The **Relay®Pro Thoracic Stent-Graft System** is indicated for the endovascular repair of all lesions of the descending thoracic aorta (including aneurysm, PAU, dissection and transection) in patients having appropriate anatomy.

Bare Stent Configuration

Stent-Graft Diameter	Proximal Length	Stent-Graft Diameter	Distal Length (Aneurysm)	Distal Length (Dissection and Transection)
22*-28mm	15mm	22-38mm	25mm	20mm
30-38mm	20mm	40-46mm	30mm	20mm
40-46mm	25mm			

Non-Bare Stent Configuration

Stent-Graft Diameter	Proximal Length	Stent-Graft Diameter	Distal Length (Aneurysm)	Distal Length (Dissection and Transection)
22*-38mm	25mm	22-38mm	25mm	20mm
40-46mm	30mm	40-46mm	30mm	20mm

Relay®Pro

Proximal Stent Graft Diameter	22*-30mm	32-36mm	38-40mm	42-46mm
Profile Outer Diameter (OD)	19Fr	20Fr	21Fr	22Fr
				

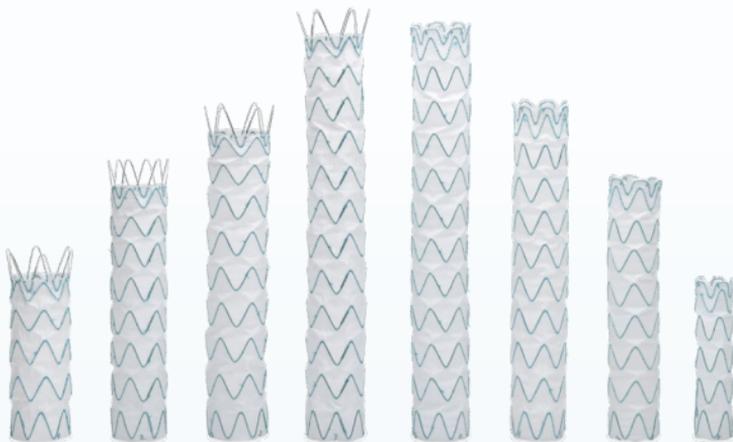
Relay®Pro NBS

Proximal Stent Graft Diameter	22*-26mm	28-30mm	32-34mm	36-40mm	42-46mm
Profile Outer Diameter (OD)	19Fr	20Fr	21Fr	22Fr	23Fr
					

*22mm diameter stent-grafts are only approved to treat traumatic aortic injuries (transections).

Relay®Pro Sizing

The **standard portfolio** has a **wide range of sizes and tapers** allowing each patient access to the right solution, every time.



Dimensions Available

Proximal Diameter (mm)	Distal Diameter (mm)	Nominal Length (mm)
22* through 46 (increments of 2)	22* through 46 (increments of 2)	100 through 250 (increments of 50)

The standard portfolio offers a nominal 4mm taper starting with the 28mm proximal diameter stent-grafts.

*22mm diameter stent-grafts are only approved to treat traumatic aortic injuries (transections).

Precise, Accurate, and Controlled to Navigate the Arch with Care



Non Bare Stent Configuration

Two clasped stent apices, both located on the outer curve of the RelayPro NBS



Bare Stent Configuration

Variable bare stent heights depending on proximal diameter



1 PROXIMAL CLASPING

- ▶ Allows for repositioning of the device and facilitates perpendicular deployment

2 PRE-CURVED INNER CATHETER

- ▶ Conforms to the aortic arch designed for alignment of the stent-graft

3 SOFT INNER SHEATH

- ▶ 30cm length
- ▶ Designed to provide navigability and to ensure accurate deployment, minimizing trauma to surrounding anatomy



Controller



Mechanical Advantage



4 COILED OUTER SHEATH

- ▶ 60cm length
- ▶ Designed to provide pushability, supporting during the advancement and maneuvering through access vessel

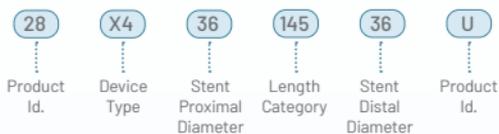
5 CONTROLLER

- ▶ Allows for staged deployment enhancing control and accuracy in stent-graft placement

6 MECHANICAL ADVANTAGE

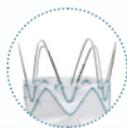
- ▶ Forward and backward gear system allows for small incremental movements of the stent-graft enhancing controlled delivery

Relay®Pro Product Ordering Information



Device Type Key

X =
 M = Bare Stent
 N = NBS



Bare Stent: Straight

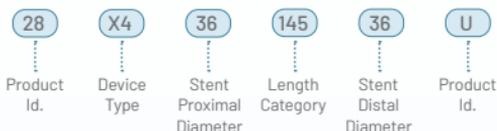
	Vessel	Stent-graft		Delivery System		Catalog Number
		Thoracic Proximal Vessel Size	Proximal/ Distal Diameter	Covered Length	Profile OD	
100mm	19	22*	90	19Fr		28-M4-22-090-22U
	20-21	24	90	19Fr		28-M4-24-090-24U
	22-23	26	95	19Fr		28-M4-26-095-26U
	24-25	28	95	19Fr		28-M4-28-095-28U
	26-27	30	95	19Fr		28-M4-30-095-30U
	28-29	32	95	20Fr		28-M4-32-095-32U
	30-31	34	100	20Fr		28-M4-34-100-34U
	32-33	36	100	20Fr		28-M4-36-100-36U
	34	38	100	21Fr		28-M4-38-100-38U
	35-36	40	105	21Fr		28-M4-40-105-40U
	37-38	42	105	22Fr	•	28-M4-42-105-42U
	39-40	44	105	22Fr	•	28-M4-44-105-44U
	41-42	46	105	22Fr	•	28-M4-46-105-46U
150mm	19	22*	150	19Fr		28-M4-22-150-22U
	20-21	24	150	19Fr		28-M4-24-150-24U
	22-23	26	155	19Fr		28-M4-26-155-26U
	24-25	28	155	19Fr		28-M4-28-155-28U
	26-27	30	155	19Fr		28-M4-30-155-30U
	28-29	32	155	20Fr		28-M4-32-155-32U
	30-31	34	145	20Fr		28-M4-34-145-34U
	32-33	36	145	20Fr		28-M4-36-145-36U
	34	38	145	21Fr		28-M4 38-145-38U
	35-36	40	145	21Fr		28-M4-40-145-40U
	37-38	42	150	22Fr		28-M4-42-150-42U
	39-40	44	155	22Fr		28-M4-44-155-44U
	41-42	46	155	22Fr	•	28-M4-46-155-46U

^Made to Order products are pre-existing device configurations and are not part of the custom-made device program. They will be built upon receipt of Purchase Order and are subject to extended lead times.

*22mm diameter stent-grafts are only approved to treat traumatic aortic injuries (transections).

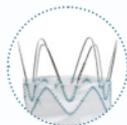
All measurements in mm unless otherwise specified. Select the appropriate device size based on artery outer diameter measurement taken from CT images.

Relay®Pro Product Ordering Information



Device Type Key

X =
M = Bare Stent
N = NBS



Bare Stent: Straight

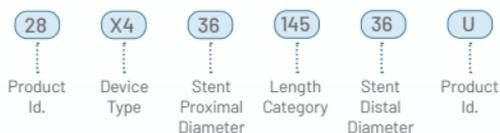
	Vessel		Stent-graft		Delivery System	
	Thoracic Proximal Vessel Size	Proximal/ Distal Diameter	Covered Length	Profile OD	Made to Order [^]	Catalog Number
200mm	19	22*	190	19Fr		28-M4-22-190-22U
	20-21	24	190	19Fr		28-M4-24-190-24U
	22-23	26	195	19Fr		28-M4-26-195-26U
	24-25	28	195	19Fr		28-M4-28-195-28U
	26-27	30	200	19Fr		28-M4-30-200-30U
	28-29	32	200	20Fr		28-M4-32-200-32U
	30-31	34	200	20Fr		28-M4-34-200-34U
	32-33	36	190	20Fr		28-M4-36-190-36U
	34	38	190	21Fr		28-M4-38-190-38U
	35-36	40	195	21Fr		28-M4-40-195-40U
	37-38	42	195	22Fr		28-M4-42-195-42U
	39-40	44	200	22Fr		28-M4-44-200-44U
	41-42	46	200	22Fr	•	28-M4-46-200-46U
250mm	19	22*	250	19Fr		28-M4-22-250-22U
	20-21	24	250	19Fr		28-M4-24-250-24U
	22-23	26	250	19Fr		28-M4-26-250-26U
	24-25	28	250	19Fr		28-M4-28-250-28U
	26-27	30	250	19Fr		28-M4-30-250-30U
	28-29	32	250	20Fr		28-M4-32-250-32U
	30-31	34	250	20Fr		28-M4-34-250-34U
	32-33	36	250	20Fr		28-M4-36-250-36U
	34	38	250	21Fr		28-M4-38-250-38U
	35-36	40	250	21Fr		28-M4-40-250-40U
	37-38	42	250	22Fr	•	28-M4-42-250-42U
	39-40	44	250	22Fr	•	28-M4-44-250-44U
	41-42	46	250	22Fr	•	28-M4-46-250-46U

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*22mm diameter stent-grafts are only approved to treat traumatic aortic injuries (transections).

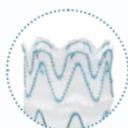
All measurements in mm unless otherwise specified. Select the appropriate device size based on artery outer diameter measurement taken from CT images.

Relay® Pro Product Ordering Information



Device Type Key

X =
M = Bare Stent
N = NBS



Non-Bare Stent: Straight

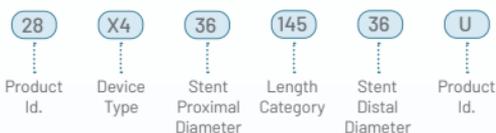
	Vessel	Stent-graft		Delivery System		
	Thoracic Proximal Vessel Size	Proximal/Distal Diameter	Covered Length	Profile OD	Made to Order ^	Catalog Number
100mm	19	22*	99	19Fr		28-N4-22-099-22U
	20-21	24	99	19Fr		28-N4-24-099-24U
	22-23	26	104	19Fr		28-N4-26-104-26U
	24-25	28	104	20Fr		28-N4-28-104-28U
	26-27	30	104	20Fr		28-N4-30-104-30U
	28-29	32	104	21Fr		28-N4-32-104-32U
	30-31	34	109	21Fr		28-N4-34-109-34U
	32-33	36	109	22Fr		28-N4-36-109-36U
	34	38	109	22Fr		28-N4-38-109-38U
	35-36	40	114	22Fr		28-N4-40-114-40U
	37-38	42	114	23Fr	•	28-N4-42-114-42U
	39-40	44	114	23Fr	•	28-N4-44-114-44U
	41-42	46	114	23Fr	•	28-N4-46-114-46U
150mm	19	22*	159	19Fr		28-N4-22-159-22U
	20-21	24	159	19Fr		28-N4-24-159-24U
	22-23	26	164	19Fr		28-N4-26-164-26U
	24-25	28	164	20Fr		28-N4-28-164-28U
	26-27	30	164	20Fr		28-N4-30-164-30U
	28-29	32	164	21Fr		28-N4-32-164-32U
	30-31	34	154	21Fr		28-N4-34-154-34U
	32-33	36	154	22Fr		28-N4-36-154-36U
	34	38	154	22Fr		28-N4-38-154-38U
	35-36	40	154	22Fr		28-N4-40-154-40U
	37-38	42	159	23Fr		28-N4-42-159-42U
	39-40	44	164	23Fr		28-N4-44-164-44U
	41-42	46	164	23Fr	•	28-N4-46-164-46U

^Made to Order products are pre-existing device configurations and are not part of the custom-made device program. They will be built upon receipt of Purchase Order and are subject to extended lead times.

*22mm diameter stent-grafts are only approved to treat traumatic aortic injuries (transections).

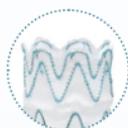
All measurements in mm unless otherwise specified. Select the appropriate device size based on artery outer diameter measurement taken from CT images.

Relay®Pro Product Ordering Information



Device Type Key

X = Bare Stent
N = NBS



Non-Bare Stent: Straight

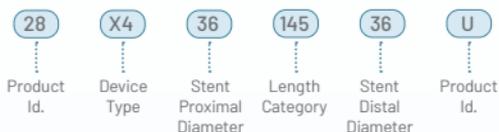
	Vessel	Stent-graft		Delivery System		
	Thoracic Proximal Vessel Size	Proximal/ Distal Diameter	Covered Length	Profile OD	Made to Order ^	Catalog Number
200mm	19	22*	199	19Fr		28-N4-22-199-22U
	20-21	24	199	19Fr		28-N4-24-199-24U
	22-23	26	204	19Fr		28-N4-26-204-26U
	24-25	28	204	20Fr		28-N4-28-204-28U
	26-27	30	209	20Fr		28-N4-30-209-30U
	28-29	32	209	21Fr		28-N4-32-209-32U
	30-31	34	209	21Fr		28-N4-34-209-34U
	32-33	36	199	22Fr		28-N4-36-199-36U
	34	38	199	22Fr		28-N4-38-199-38U
	35-36	40	204	22Fr		28-N4-40-204-40U
	37-38	42	204	23Fr		28-N4-42-204-42U
	39-40	44	209	23Fr		28-N4-44-209-44U
250mm	41-42	46	209	23Fr	•	28-N4-46-209-46U
	19	22*	259	19Fr	•	28-N4-22-259-22U
	20-21	24	259	19Fr	•	28-N4-24-259-24U
	22-23	26	259	19Fr	•	28-N4-26-259-26U
	24-25	28	259	20Fr	•	28-N4-28-259-28U
	26-27	30	259	20Fr	•	28-N4-30-259-30U
	28-29	32	259	21Fr	•	28-N4-32-259-32U
	30-31	34	259	21Fr	•	28-N4-34-259-34U
	32-33	36	259	22Fr	•	28-N4-36-259-36U
	34	38	259	22Fr	•	28-N4-38-259-38U
	35-36	40	259	22Fr	•	28-N4-40-259-40U
	37-38	42	259	23Fr	•	28-N4-42-259-42U
39-40	44	259	23Fr	•	28-N4-44-259-44U	
41-42	46	259	23Fr	•	28-N4-46-259-46U	

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*22mm diameter stent-grafts are only approved to treat traumatic aortic injuries (transections).

All measurements in mm unless otherwise specified. Select the appropriate device size based on artery outer diameter measurement taken from CT images.

Relay® Pro Product Ordering Information



Device Type Key

X =
M = Bare Stent
N = NBS



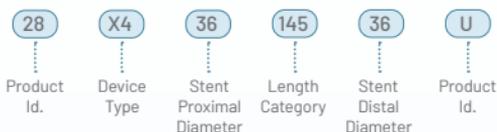
Bare Stent: Tapered

	Vessel		Stent-graft		Delivery System		Catalog Number
	Proximal Diameter	Distal Diameter	Proximal/ Distal Diameter	Covered Length	Profile OD	Made to Order ^	
150mm	24-25	20-21	28/24	155	19Fr		28-M4-28-155-24U
	26-27	22-23	30/26	155	19Fr		28-M4-30-155-26U
	28-29	24-25	32/28	155	20Fr		28-M4-32-155-28U
	30-31	26-27	34/30	145	20Fr		28-M4-34-145-30U
	32-33	28-29	36/32	145	20Fr		28-M4-36-145-32U
	34	30-31	38/34	145	21Fr		28-M4-38-145-34U
	35-36	32-33	40/36	145	21Fr		28-M4-40-145-36U
	37-38	34	42/38	150	22Fr		28-M4-42-150-38U
	39-40	35-36	44/40	155	22Fr		28-M4-44-155-40U
	41-42	37-38	46/42	155	22Fr	•	28-M4-46-155-42U
200mm	24-25	20-21	28/24	195	19Fr		28-M4-28-195-24U
	26-27	22-23	30/26	200	19Fr		28-M4-30-200-26U
	28-29	24-25	32/28	200	20Fr		28-M4-32-200-28U
	30-31	26-27	34/30	200	20Fr		28-M4-34-200-30U
	32-33	28-29	36/32	190	20Fr		28-M4-36-190-32U
	34	30-31	38/34	190	21Fr		28-M4-38-190-34U
	35-36	32-33	40/36	195	21Fr		28-M4-40-195-36U
	37-38	34	42/38	195	22Fr		28-M4-42-195-38U
	39-40	35-36	44/40	200	22Fr		28-M4-44-200-40U
	41-42	37-38	46/42	200	22Fr	•	28-M4-46-200-42U
250mm	24-25	20-21	28/24	250	19Fr		28-M4-28-250-24U
	26-27	22-23	30/26	250	19Fr		28-M4-30-250-26U
	28-29	24-25	32/28	250	20Fr		28-M4-32-250-28U
	30-31	26-27	34/30	250	20Fr		28-M4-34-250-30U
	32-33	28-29	36/32	250	20Fr		28-M4-36-250-32U
	34	30-31	38/34	250	21Fr		28-M4-38-250-34U
	35-36	32-33	40/36	250	21Fr		28-M4-40-250-36U
	37-38	34	42/38	250	22Fr	•	28-M4-42-250-38U
	39-40	35-36	44/40	250	22Fr	•	28-M4-44-250-40U
	41-42	37-38	46/42	250	22Fr	•	28-M4-46-250-42U

^ Made to Order products are pre-existing device configurations and are not part of the custom-made device program. They will be built upon receipt of Purchase Order and are subject to extended lead times.

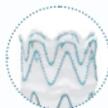
All measurements in mm unless otherwise specified. Select the appropriate device size based on artery outer diameter measurement taken from CT images.

Relay®Pro Product Ordering Information



Device Type Key

X =
M = Bare Stent
N = NBS

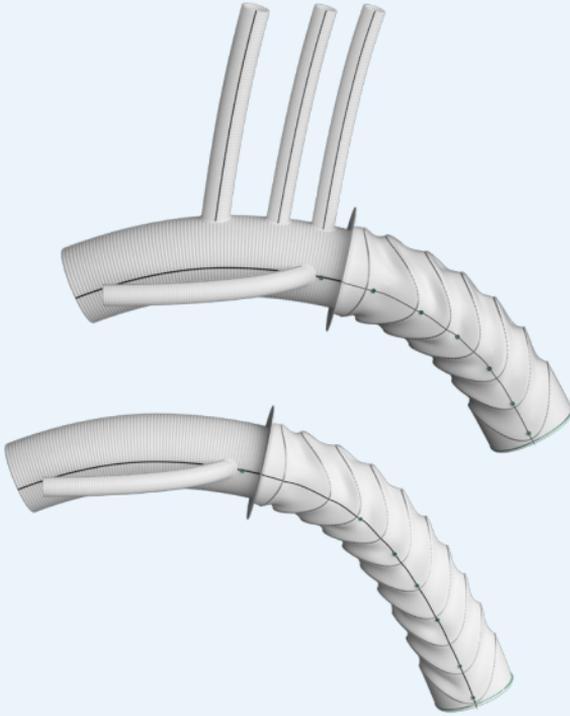


Non-Bare Stent: Tapered

	Vessel		Stent-graft		Delivery System		
	Proximal Diameter	Distal Diameter	Proximal/ Distal Diameter	Covered Length	Profile OD	Made to Order [^]	Catalog Number
150mm	24-25	20-21	28/24	164	20Fr		28-N4-28-164-24U
	26-27	22-23	30/26	164	20Fr		28-N4-30-164-26U
	28-29	24-25	32/28	164	21Fr		28-N4-32-164-28U
	30-31	26-27	34/30	154	21Fr		28-N4-34-154-30U
	32-33	28-29	36/32	154	22Fr		28-N4-36-154-32U
	34	30-31	38/34	154	22Fr		28-N4-38-154-34U
	35-36	32-33	40/36	154	22Fr		28-N4-40-154-36U
	37-38	34	42/38	159	23Fr		28-N4-42-159-38U
	39-40	35-36	44/40	164	23Fr		28-N4-44-164-40U
	41-42	37-38	46/42	164	23Fr	•	28-N4-46-164-42U
200mm	24-25	20-21	28/24	204	20Fr		28-N4-28-204-24U
	26-27	22-23	30/26	209	20Fr		28-N4-30-209-26U
	28-29	24-25	32/28	209	21Fr		28-N4-32-209-28U
	30-31	26-27	34/30	209	21Fr		28-N4-34-209-30U
	32-33	28-29	36/32	199	22Fr		28-N4-36-199-32U
	34	30-31	38/34	199	22Fr		28-N4-38-199-34U
	35-36	32-33	40/36	204	22Fr		28-N4-40-204-36U
	37-38	34	42/38	204	23Fr		28-N4-42-204-38U
	39-40	35-36	44/40	209	23Fr		28-N4-44-209-40U
	41-42	37-38	46/42	209	23Fr	•	28-N4-46-209-42U
250mm	24-25	20-21	28/24	259	20Fr	•	28-N4-28-259-24U
	26-27	22-23	30/26	259	20Fr	•	28-N4-30-259-26U
	28-29	24-25	32/28	259	21Fr	•	28-N4-32-259-28U
	30-31	26-27	34/30	259	21Fr	•	28-N4-34-259-30U
	32-33	28-29	36/32	259	22Fr	•	28-N4-36-259-32U
	34	30-31	38/34	259	22Fr	•	28-N4-38-259-34U
	35-36	32-33	40/36	259	22Fr	•	28-N4-40-259-36U
	37-38	34	42/38	259	23Fr	•	28-N4-42-259-38U
	39-40	35-36	44/40	259	23Fr	•	28-N4-44-259-40U
	41-42	37-38	46/42	259	23Fr	•	28-N4-46-259-42U

[^] Made to Order products are pre-existing device configurations and are not part of the custom-made device program. They will be built upon receipt of Purchase Order and are subject to extended lead times.

All measurements in mm unless otherwise specified. Select the appropriate device size based on artery outer diameter measurement taken from CT images.



THORAFLEX™ HYBRID

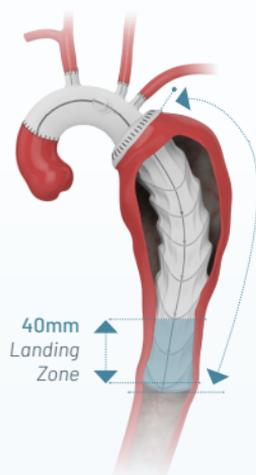
Conforming Arch Surgery to the
Gold Standard

thoraflex™ hybrid

Indications for Use

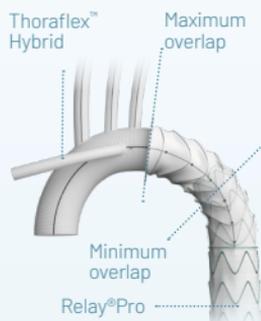
The world's first multi-branched Frozen Elephant Trunk Device with Plexus & Ante-Flo™ configurations for individual arch vessel reconstruction or the Island Technique.

The **Thoraflex™ Hybrid** device is intended for the open surgical repair or replacement of damaged or diseased vessels of the aortic arch and descending aorta with or without involvement of the ascending aorta in cases of aneurysm and/or dissection.



Thoraflex™ Hybrid is indicated to be extended using a Relay®Pro NBS Thoracic Stent Graft System to exclude aneurysms/ dissections longer than the standard Thoraflex™ Hybrid device. If the lesion requires use of an endovascular extension, only a Relay®Pro NBS* Thoracic Stent Graft System configuration should be used.

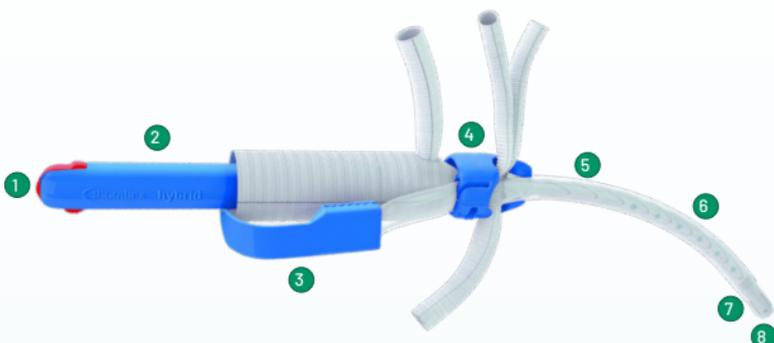
Adjunctive devices with barb or hook features which would be positioned in the overlap region should not be used.



*Product availability subject to local regulatory approval

Flexible & Compact Delivery System

Intuitive design with enhanced deployment performance for accurate positioning.



1 RELEASE WIRE CLIP

- ▶ Designed to detach graft from delivery system

4 SHEATH SPLITTER

- ▶ Atraumatic blades (top/bottom)
- ▶ Rapid release suture system

7 ATRAUMATIC TIP

- ▶ 30F diameter (10mm)

2 HANDLE

- ▶ Control during deployment
- ▶ Visualization of operating field

5 PTFE SHEATH (30F)

- ▶ Peelable/Splittable Sheath
- ▶ Split-Lines to facilitate deployment

8 (2X) 0.035" GUIDEWIRE ACCESS PORTS

- ▶ Delivery system introduction
- ▶ Accurate placement of stent

3 STRAP HANDLE

- ▶ Attached to sheath
- ▶ Pull to start graft deployment

6 MALLEABLE SHAFT

- ▶ Adaptable to patient anatomy
- ▶ Can be reshaped



Thoraflex™ Hybrid Product Ordering Information

Plexus Device



Catalog Number Explanation



100mm Stent Length

Graft ID - D1* (mm)	Stent-Graft OD - D2** (mm)	Catalog Number
22	24	THP2224 X 100E
24	26	THP2426 X 100E
26	28	THP2628 X 100E
28	30	THP2830 X 100E
30	32	THP3032 X 100E
30	34	THP3034 X 100E
30	36	THP3036 X 100E
30	38	THP3038 X 100E
30	40	THP3040 X 100E
32	40	THP3240 X 100E

150mm Stent Length

Graft ID - D1* (mm)	Stent-Graft OD - D2** (mm)	Catalog Number
22	24	THP2224 X 150E
24	26	THP2426 X 150E
26	28	THP2628 X 150E
28	30	THP2830 X 150E
30	32	THP3032 X 150E
30	34	THP3034 X 150E
30	36	THP3036 X 150E
30	38	THP3038 X 150E
30	40	THP3040 X 150E
32	40	THP3240 X 150E

Ante-Flo™ Device



Catalog Number Explanation



100mm Stent Length

Graft ID - D1* (mm)	Stent-Graft OD - D2** (mm)	Catalog Number
22	24	THA2224 X 100E
24	26	THA2426 X 100E
26	28	THA2628 X 100E
28	30	THA2830 X 100E
30	32	THA3032 X 100E
30	34	THA3034 X 100E
30	36	THA3036 X 100E
30	38	THA3038 X 100E
30	40	THA3040 X 100E
32	40	THA3240 X 100E

150mm Stent Length

Graft ID - D1* (mm)	Stent-Graft OD - D2** (mm)	Catalog Number
22	24	THA2224 X 150E
24	26	THA2426 X 150E
26	28	THA2628 X 150E
28	30	THA2830 X 150E
30	32	THA3032 X 150E
30	34	THA3034 X 150E
30	36	THA3036 X 150E
30	38	THA3038 X 150E
30	40	THA3040 X 150E
32	40	THA3240 X 150E

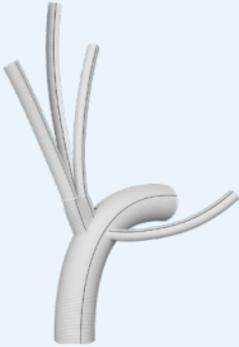
Note regarding page 28:

The branches on THP2224 X 100E, THP2426 X 100E, THP2224 X 150E and THP2426 X 150E are as follows: 10mm, 8mm & 8mm.

(All other sizes have standard branch diameter configurations: 12mm, 8mm & 10mm)

*Inner Diameter

**Outer Diameter



GELWEAVE™ PRODUCT FAMILY

Built with precision, you can trust in Gelweave™ for the confidence to confront the challenges of aortic repair.

Gelweave™ Straight Grafts

Gelweave™ Straight grafts are gelatin sealed, woven polyester grafts indicated for the repair or replacement of damaged and diseased vessels of the thoracic and abdominal aorta in cases of aneurysm, dissection or occlusive disease.



Straight graft

Bore Size (mm)	Usable Length (cm)	Catalog Number
6	15	731506E
6	30	733006E
6	40	734006E
6	60	736006E
8	15	731508E
8	30	733008E
8	40	734008E
8	60	736008E
10	15	731510E
10	30	733010E
10	60	736010E
12	15	731512E
12	30	733012E
12	60	736012E
14	15	731514E
14	30	733014E
14	60	736014E
16	15	731516E
16	30	733016E
16	60	736016E
18	12.5	731218E
18	25	732518E
18	30	733018E
18	50	735018E
18	60	736018E
20	12.5	731220E
20	25	732520E
20	30	733020E
20	50	735020E
20	60	736020E
22	12.5	731222E
22	25	732522E
22	30	733022E
22	50	735022E
22	60	736022E

Straight graft

Bore Size (mm)	Usable Length (cm)	Catalog Number
24	12.5	731224E
24	25	732524E
24	30	733024E
24	50	735024E
24	60	736024E
26	5	730526E
26	12.5	731226E
26	25	732526E
26	30	733026E
26	50	735026E
26	60	736026E
28	5	730528E
28	12.5	731228E
28	25	732528E
28	30	733028E
28	50	735028E
28	60	736028E
30	10	731030E
30	20	732030E
30	30	733030E
30	40	734030E
30	50	735030E
30	60	736030E
32	10	731032E
32	20	732032E
32	30	733032E
32	40	734032E
32	50	735032E
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34	60	736034E
36	10	731036E
36	30	733036E
36	40	734036E
36	60	736036E
38	10	731038E
38	20	732038E
38	30	733038E
38	40	734038E
38	60	736038E

Gelweave™ Valsalva Grafts

The world's FIRST anatomically designed aortic root graft¹ indicated for the repair or replacement of damaged and diseased thoracic aorta, such as aortic root replacement in cases of aneurysm and dissection.



Valsalva graft

Bore Size (mm)	Max Skirt Diameter (mm)	Body Length (cm)	Skirt Length (mm)	Collar Length (mm)	Catalog Number
16	21	15	16	10	730016ADPE
18	24	15	18	10	730018ADPE
20	26	15	20	10	730020ADPE
22	28	15	22	10	730022ADPE
24	32	15	24	10	730024ADPE
26	34	15	26	10	730026ADPE
28	36	15	28	10	730028ADPE
30	38	15	30	10	730030ADPE
32	42	15	32	10	730032ADPE
34	44	15	34	10	730034ADPE

Made-To-Order devices are also available; Made to Order products are pre-existing device configurations and are not part of the custom-made device program. They will be built upon receipt of Purchase Order and are subject to extended lead times

Gelweave™ Ante-Flo Grafts

Antegrade flow made easy by the side branch may offer minimized circulatory arrest time² and lower risk of neurological deficits³. Gelweave™ Vascular Prostheses with an 'Ante-Flo' side branch are intended to allow perfusion of the graft during the implant procedure.



Ante-Flo graft

Bore Size (mm)		Usable Length (cm)		
Main Body	Side Branch	Main Body	Side Branch	Catalog Number
18	8	40	15	734018/8E
20	8	40	15	734020/8E
22	8	40	15	734022/8E
24	8	40	15	734024/8E
26	8	40	15	734026/8E
28	8	40	15	734028/8E
30	8	40	15	734030/8E
32	8	40	15	734032/8E
34	8	40	15	734034/8E
22	8	20	15	732022/8E
24	8	20	15	732024/8E
26	8	20	15	732026/8E
28	8	20	15	732028/8E
30	8	20	15	732030/8E
32	8	20	15	732032/8E
34	8	20	15	732034/8E
22	10	20	15	732022/10E
24	10	20	15	732024/10E
26	10	20	15	732026/10E
28	10	20	15	732028/10E
30	10	20	15	732030/10E
32	10	20	15	732032/10E
34	10	20	15	732034/10E
20	10	40	25	734020/10SE
22	10	40	25	734022/10SE
24	10	40	25	734024/10SE
26	10	40	25	734026/10SE
28	10	40	25	734028/10SE
30	10	40	25	734030/10SE
20	10	40	15	734020/10E
22	10	40	15	734022/10E
24	10	40	15	734024/10E
26	10	40	15	734026/10E
28	10	40	15	734028/10E
30	10	40	15	734030/10E
32	10	40	15	734032/10E
34	10	40	15	734034/10E

Made-To-Order devices are also available; Made to Order products are pre-existing device configurations and are not part of the custom-made device program. They will be built upon receipt of Purchase Order and are subject to extended lead times.

Gelweave™ Plexus Grafts

Gelweave™ gelatin sealed grafts with multi-branch designs are indicated for the repair or replacement of damaged and diseased vessels of the thoracic aorta in cases of aneurysm, dissection or occlusive disease.



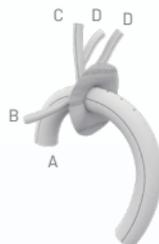
4-branch plexus graft

Bore Size (mm)				Usable Length (cm)				Catalog Number
Main Body (A)	Side Branch (B)	Arch Branch (C)	Arch Branch (D)	Main Body (A)	Side Branch (B)	Arch Branch (C)	Arch Branch (D)	
20	8	10	8	40	15	15	15	73201088/8E
22	8	10	8	40	15	15	15	73221088/8E
24	8	10	8	40	15	15	15	73241088/8E
26	8	10	8	40	15	15	15	73261088/8E
28	8	10	8	40	15	15	15	73281088/8E
30	8	10	8	40	15	15	15	73301088/8E
32	8	10	8	40	15	15	15	73321088/8E
34	8	10	8	40	15	15	15	73341088/8E
20	10	10	8	40	15	15	15	73201088/10E
22	10	10	8	40	15	15	15	73221088/10E
24	10	10	8	40	15	15	15	73241088/10E
26	10	10	8	40	15	15	15	73261088/10E
28	10	10	8	40	15	15	15	73281088/10E
30	10	10	8	40	15	15	15	73301088/10E
32	10	10	8	40	15	15	15	73321088/10E
34	10	10	8	40	15	15	15	73341088/10E

Made-To-Order devices are also available; Made to Order products are pre-existing device configurations and are not part of the custom-made device program. They will be built upon receipt of Purchase Order and are subject to extended lead times.

Gelweave™ Plexus Collared Grafts

Gelweave™ gelatin sealed grafts with multi-branch collared designs are indicated for the repair or replacement of damaged and diseased vessels of the thoracic aorta in cases of aneurysm, dissection or occlusive disease.



Radial plexus with radiopaque markers

Bore Size (mm)				Usable Length (cm)				Catalog Number
Main Body (A)	Side Branch (B)	Arch Branch (C)	Arch Branch (D)	Main Body (A)	Side Branch (B)	Arch Branch (C)	Arch Branch (D)	
20	8	10	8	50	15	15	15	732010108/8RPE
22	8	10	8	50	15	15	15	732210108/8RPE
24	8	10	8	50	15	15	15	732410108/8RPE
26	8	10	8	50	15	15	15	732610108/8RPE
28	8	10	8	50	15	15	15	732810108/8RPE
30	8	10	8	50	15	15	15	733010108/8RPE
32	8	10	8	50	15	15	15	733210108/8RPE
20	10	10	8	50	15	15	15	732010108/10RPE
22	10	10	8	50	15	15	15	732210108/10RPE
24	10	10	8	50	15	15	15	732410108/10RPE
26	10	10	8	50	15	15	15	732610108/10RPE
28	10	10	8	50	15	15	15	732810108/10RPE
30	10	10	8	50	15	15	15	733010108/10RPE
32	10	10	8	50	15	15	15	733210108/10RPE

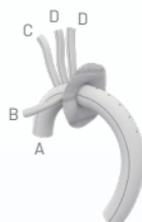
Note:

100mm diameter collar.

Made-To-Order devices are also available; Made to Order products are pre-existing device configurations and are not part of the custom-made device program. They will be built upon receipt of Purchase Order and are subject to extended lead times.

Gelweave™ Siena Collared Branched Grafts with Radiopaque Markers

The Siena graft with radiopaque markers can be used in the first stage of conventional elephant trunk procedures and can be used for debranching, i.e. reconstruction of the aortic vessels & associated Hybrid* procedures.



Siena 4-branch Plexus graft with radiopaque markers

Bore Size (mm)				Usable Length (cm)				Catalog Number
Main Body (A)	Side Branch (B)	Arch Branch (C)	Arch Branch (D)	Main Body (A)	Side Branch (B)	Arch Branch (C)	Arch Branch (D)	
20	8	10	8	50	15	15	15	73201088/8RME
22	8	10	8	50	15	15	15	73221088/8RME
24	8	10	8	50	15	15	15	73241088/8RME
26	8	10	8	50	15	15	15	73261088/8RME
28	8	10	8	50	15	15	15	73281088/8RME
30	8	10	8	50	15	15	15	73301088/8RME
32	8	10	8	50	15	15	15	73321088/8RME
34	8	10	8	50	15	15	15	73341088/8RME
20	10	10	8	50	15	15	15	73201088/10RME
22	10	10	8	50	15	15	15	73221088/10RME
24	10	10	8	50	15	15	15	73241088/10RME
26	10	10	8	50	15	15	15	73261088/10RME
28	10	10	8	50	15	15	15	73281088/10RME
30	10	10	8	50	15	15	15	73301088/10RME
32	10	10	8	50	15	15	15	73321088/10RME
34	10	10	8	50	15	15	15	73341088/10RME

Note:

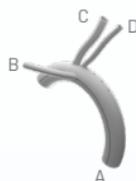
100mm diameter collar.

*Hybrid procedures are defined as a treatment combination employing open surgical debranching with endovascular aortic repair.

Made-To-Order devices are also available; Made to Order products are pre-existing device configurations and are not part of the custom-made device program. They will be built upon receipt of Purchase Order and are subject to extended lead times.

Gelweave™ Bavaria Zone 2 Grafts

Gelweave™ Zone 2 grafts are gelatin sealed, woven polyester grafts, primarily for debranching, i.e. reconstruction of the aortic vessels & associated Hybrid* procedures.



Bavaria zone 2 graft

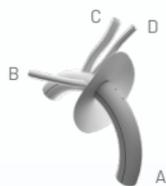
Bore Size (mm)				Usable Length (cm)				Catalog Number
Main Body (A)	Side Branch (B)	Arch Branch (C)	Arch Branch (D)	Main Body (A)	Side Branch (B)	Arch Branch (C)	Arch Branch (D)	
20	10	12	8	50	15	15	15	7320128/10RMEE
22	10	12	8	50	15	15	15	7322128/10RMEE
24	10	12	8	50	15	15	15	7324128/10RMEE
26	10	12	8	50	15	15	15	7326128/10RMEE
28	10	12	8	50	15	15	15	7328128/10RMEE
30	10	12	8	50	15	15	15	7330128/10RMEE
32	10	12	8	50	15	15	15	7332128/10RMEE
20	10	14	8	50	15	15	15	7320148/10RMEE
22	10	14	8	50	15	15	15	7322148/10RMEE
24	10	14	8	50	15	15	15	7324148/10RMEE
26	10	14	8	50	15	15	15	7326148/10RMEE
28	10	14	8	50	15	15	15	7328148/10RMEE
30	10	14	8	50	15	15	15	7330148/10RMEE
32	10	14	8	50	15	15	15	7332148/10RMEE

Note:

60° angled supra-aortic branches.

*Hybrid procedures are defined as a treatment combination employing open surgical debranching with endovascular aortic repair.

Bavaria collared zone 2 graft



Bore Size (mm)				Usable Length (cm)				Catalog Number
Main Body (A)	Side Branch (B)	Arch Branch (C)	Arch Branch (D)	Main Body (A)	Side Branch (B)	Arch Branch (C)	Arch Branch (D)	
20	10	12	8	50	15	15	15	7320128/10RMFE
22	10	12	8	50	15	15	15	7322128/10RMFE
24	10	12	8	50	15	15	15	7324128/10RMFE
26	10	12	8	50	15	15	15	7326128/10RMFE
28	10	12	8	50	15	15	15	7328128/10RMFE
30	10	12	8	50	15	15	15	7330128/10RMFE
32	10	12	8	50	15	15	15	7332128/10RMFE
20	10	14	8	50	15	15	15	7320148/10RMFE
22	10	14	8	50	15	15	15	7322148/10RMFE
24	10	14	8	50	15	15	15	7324148/10RMFE
26	10	14	8	50	15	15	15	7326148/10RMFE
28	10	14	8	50	15	15	15	7328148/10RMFE
30	10	14	8	50	15	15	15	7330148/10RMFE
32	10	14	8	50	15	15	15	7332148/10RMFE

Note:

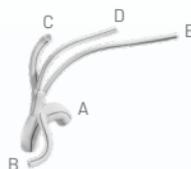
60° angled supra-aortic branches.

100mm diameter collar.

Gelweave™ Branched Grafts

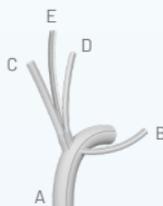
Gelweave™ Branched grafts are indicated for the repair or replacement of damaged and diseased vessels of the thoracic aorta in cases of aneurysm, dissection or occlusive disease.

Thoracic arch graft with radiopaque markers



Bore Size (mm)					Usable Length (cm)					Catalog Number
Main Body (A)	Side Branch (B)	Arch Branch (C)	Arch Branch (D)	Arch Branch (E)	Main Body (A)	Side Branch (B)	Arch Branch (C)	Arch Branch (D)	Arch Branch (E)	
22	10	12	8	8	20	30	15	15	30	732022CX4RME
24	10	12	8	8	20	30	15	15	30	732024CX4RME
26	10	12	8	8	20	30	15	15	30	732026CX4RME
28	10	12	8	8	20	30	15	15	30	732028CX4RME
30	10	12	8	8	20	30	15	15	30	732030CX4RME
32	10	12	8	8	20	30	15	15	30	732032CX4RME
34	10	12	8	8	20	30	15	15	30	732034CX4RME

Lupiae thoracic arch graft with radiopaque markers



Bore Size (mm)					Usable Length (cm)					Catalog Number
Main Body (A)	Side Branch (B)	Arch Branch (C)	Arch Branch (D)	Arch Branch (E)	Main Body (A)	Side Branch (B)	Arch Branch (C)	Arch Branch (D)	Arch Branch (E)	
20	10	10	8	10	40	30	30	30	40	734020CX4RMSE
22	10	10	8	10	40	30	30	30	40	734022CX4RMSE
24	10	10	8	10	40	30	30	30	40	734024CX4RMSE
26	10	10	8	10	40	30	30	30	40	734026CX4RMSE
28	10	10	8	10	40	30	30	30	40	734028CX4RMSE
30	10	10	8	10	40	30	30	30	40	734030CX4RMSE
32	10	10	8	10	40	30	30	30	40	734032CX4RMSE
34	10	10	8	10	40	30	30	30	40	734034CX4RMSE

Made-To-Order devices are also available; Made to Order products are pre-existing device configurations and are not part of the custom-made device program. They will be built upon receipt of Purchase Order and are subject to extended lead times.

Gelweave™ Debranching Grafts

Can be used for debranching, i.e. reconstruction of the aortic vessels & associated Hybrid* procedures.

Trifurcate arch graft

Bore Size (mm)		Usable Length (cm)		
Main Body (A)	Branch (B)	Main Body (A)	Branch (B)	Catalog Number
12	8	20	10	732012/8X2E
14	8	20	10	732014/8X2E
12	10	20	10	732012/10X2E
14	10	20	10	732014/10X2E



Trifurcate arch graft with side branch

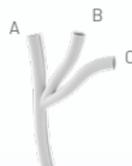
Bore Size (mm)				Usable Length (cm)				Catalog Number
Main Body (A)	Side Branch (B)	Branch (C)	Branch (D)	Main Body (A)	Side Branch (B)	Branch (C)	Branch (D)	
10	8	8	10	30	10	10	10	731010/8X2E
12	8	8	10	30	10	10	10	731210/8X2E
10	8	8	8	30	10	10	10	73108/8X2E
12	8	10	10	30	10	10	10	73128/10X2E



*Hybrid procedures are defined as a treatment combination employing open surgical debranching with endovascular aortic repair.

Made-To-Order devices are also available; Made to Order products are pre-existing device configurations and are not part of the custom-made device program. They will be built upon receipt of Purchase Order and are subject to extended lead times.

Y Arch Graft Trifurcate arch Y graft



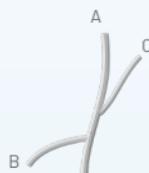
Bore Size (mm)			Usable Length (cm)			
Main Body (A)	Branch (B)	Branch (C)	Main Body (A)	Branch (B)	Branch (C)	Catalog Number
12	8	8	20	15	15	732012/8X2AE
14	8	8	20	15	15	732014/8X2AE
14	10	10	20	15	15	732014/10X2AE

W Arch Graft Trifurcate arch graft with side branch and radiopaque markers



Bore Size (mm)				Usable Length (cm)				
Main Body (A)	Branch (B)	Branch (C)	Side Branch (D)	Main Body (A)	Branch (B)	Branch (C)	Side Branch (D)	Catalog Number
12	8	10	8	30	15	15	15	7312108/8RME
12	8	10	10	30	15	15	15	7312108/10RME
14	8	10	8	30	15	15	15	7314108/8RME
14	8	10	10	30	15	15	15	7314108/10RME

Thoracic arch graft with radiopaque markers



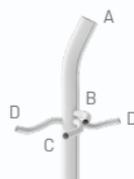
Bore Size (mm)			Usable Length (cm)			
Main Body (A)	Side Branch (B)	Branch (C)	Main Body (A)	Side Branch (B)	Branch (C)	Catalog Number
12	10	8	22	25	13	732212/10/8CRME
14	10	10	22	25	13	732214/10/10CRME
12	10	8	22	10	13	732212/10/8ARME
14	10	10	22	10	13	732214/10/10ARME

Made-To-Order devices are also available; Made to Order products are pre-existing device configurations and are not part of the custom-made device program. They will be built upon receipt of Purchase Order and are subject to extended lead times.

Gelweave™ Thoracoabdominal Grafts

Gelweave™ thoracoabdominal gelatin sealed grafts are indicated for the repair or replacement of damaged and diseased vessels of the thoracic and abdominal aorta in cases of aneurysm, dissection or occlusive disease.

Coselli Thoracoabdominal graft



Bore Size (mm)				Usable Length (cm)				Catalog Number
Main Body (A)	Branch (B)	Branch (C)	Branches (D)	Main Body (A)	Branch (B)	Branch (C)	Branches (D)	
20	10	10	8	60	10	10	10	732010108/8S4E
22	10	10	8	60	10	10	10	732210108/8S4E
24	10	10	8	60	10	10	10	732410108/8S4E
26	10	10	8	60	10	10	10	732610108/8S4E
28	10	10	8	60	10	10	10	732810108/8S4E
30	10	10	8	60	10	10	10	733010108/8S4E

Thoracoabdominal graft with collar and radiopaque markers



Bore Size (mm)				Usable Length (cm)				Catalog Number
Main Body (A)	Branch (B)	Branch (C)	Branches (D)	Main Body (A)	Branch (B)	Branch (C)	Branches (D)	
20	8	8	10	60	10	10	10	732010108/8RME
22	8	8	10	60	10	10	10	732210108/8RME
24	8	8	10	60	10	10	10	732410108/8RME
26	8	8	10	60	10	10	10	732610108/8RME
28	8	8	10	60	10	10	10	732810108/8RME
30	8	8	10	60	10	10	10	733010108/8RME

Note:

100mm diameter collar.

Made-To-Order devices are also available; Made to Order products are pre-existing device configurations and are not part of the custom-made device program. They will be built upon receipt of Purchase Order and are subject to extended lead times.

Gelweave™ Bifurcate Grafts

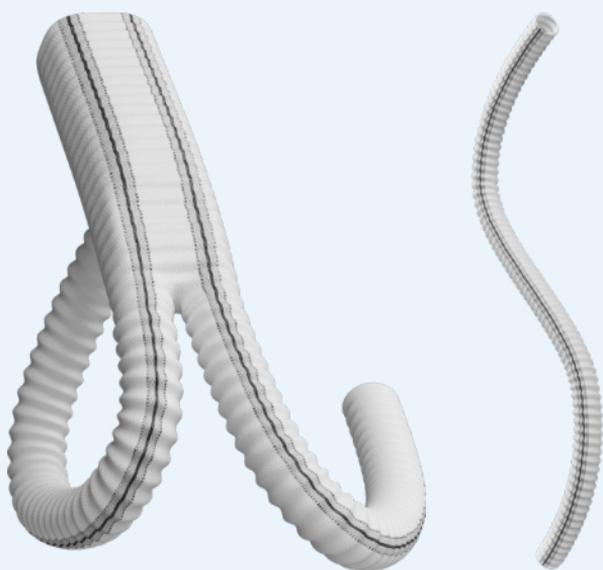
Gelweave™ bifurcate grafts are gelatin sealed, woven polyester grafts indicated for the repair or replacement of damaged and diseased vessels of the thoracic and abdominal aorta in cases of aneurysm, dissection or occlusive disease.

Bifurcate graft

Main Bore Size (mm)	Leg Bore Size (mm)	Usable Length (cm)	Catalog Number
12	6	45	731206E
14	7	45	731407E
16	8	45	731608E
18	9	45	731809E
20	10	45	732010E
22	11	45	732211E
24	12	45	732412E



Made-To-Order devices are also available; Made to Order products are pre-existing device configurations and are not part of the custom-made device program. They will be built upon receipt of Purchase Order and are subject to extended lead times.



GELSOFT™ PLUS PRODUCT FAMILY

Designed with care, feel the difference with Gelsoft™ Plus, the knitted aortic repair solution for your patients.

Gelsoft™ Plus Straight Grafts

The Gelsoft™ Plus Straight Grafts are gelatin sealed, knitted polyester grafts, indicated exclusively for vascular repair of damaged and diseased vessels of the abdomen, i.e. replacement or bypass in aneurysmal and occlusive disease of abdominal arteries.

Straight graft

Bore Size (mm)	Usable Length (cm)	Catalog Number
6	15	631506PE
6	30	633006PE
6	40	634006PE
6	60	636006PE
7	15	631507PE
7	30	633007PE
7	40	634007PE
7	60	636007PE
8	15	631508PE
8	30	633008PE
8	40	634008PE
8	60	636008PE
10	15	631510PE
10	30	633010PE
10	60	636010PE
12	15	631512PE
12	30	633012PE
12	60	636012PE
14	15	631514PE
14	30	633014PE
14	60	636014PE
16	15	631516PE
16	30	633016PE
16	60	636016PE
18	12.5	631218PE
18	25	632518PE
18	50	635018PE
20	12.5	631220PE
20	25	632520PE
20	50	635020PE
22	12.5	631222PE
22	25	632522PE
22	50	635022PE
24	12.5	631224PE
24	25	632524PE
24	50	635024PE



Gelsoft™ Plus Bifurcate Grafts

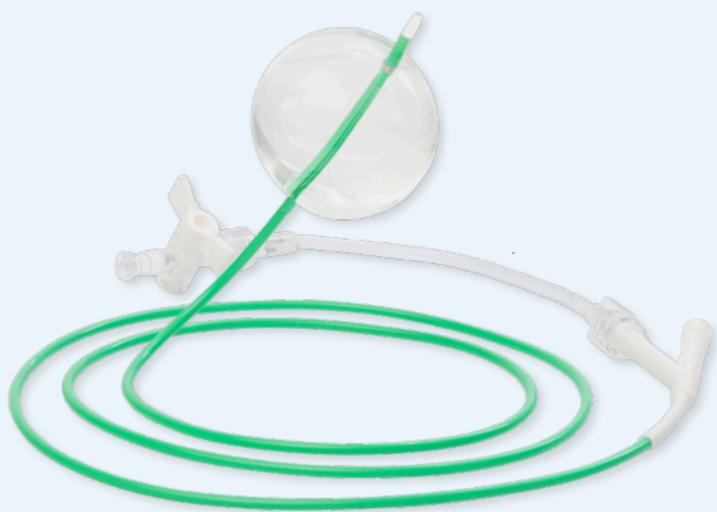
The Gelsoft™ Plus Bifurcate Grafts are gelatin sealed knitted polyester grafts indicated exclusively for vascular repair of damaged and diseased vessels of the abdomen, i.e. replacement or bypass in aneurysmal and occlusive diseases of the abdominal arteries.

Bifurcate graft

Main Bore Size (mm)	Leg Bore Size (mm)	Usable Length (cm)	Catalog Number
12	6	45	631206PE
14	7	45	631407PE
16	8	45	631608PE
18	9	45	631809PE
20	10	45	632010PE
22	11	45	632211PE
24	12	45	632412PE



Made-To-Order devices are also available; Made to Order products are pre-existing device configurations and are not part of the custom-made device program. They will be built upon receipt of Purchase Order and are subject to extended lead times.



AORTIC BALLOON

Lowest Available Profile Balloon*

*Compared to Medtronic Reliant and Cook CODA.

Exceptional Inflation Control

Aortic modeling balloon designed for exceptional inflation control and the broadest balloon diameter range, up to 50mm. It has the lowest available profile*.

- ▶ 10 French sheath compatible
- ▶ 10mm to 50mm inflation diameters
- ▶ 120cm length for ideal compatibility with TREO® and RELAY® stent-grafts

Terumo Aortic Balloon Recommended Inflation Volume

Recommended Inflation Volume (cc)	Balloon Diameter (mm)
3	10
6	20
16	30
32	40
44	45

Terumo Aortic Balloon Catheter Catalog Number

Catalog Number	Catheter Effective Length (cm)
28-W1-50-08-120G	120



*Compared to Medtronic Reliant and Cook CODA.

References

1. De Paulis R et al. (2000) A New Aortic Dacron Conduit for Surgical Treatment of Aortic Root Pathology. *Italian Heart Journal*. July; 1(7): pp457-463.
2. Ehrlich, M et al. (1996) Operative management of aortic arch aneurysm using profound hypothermia and circulatory arrest. *The Journal of Cardiovascular Surgery*. December; 37(6 Suppl 1): pp63-64.
3. Ehrlich, M et al. (1997) The use of profound hypothermia and circulatory arrest in operations on the thoracic aorta. *European Journal of Cardio-Thoracic Surgery*. January; 11(1) pp176-181.

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28-B2-24-080U	12	28-C2-26-055U	14	28-M4-42-250-42U	21
28-B2-24-100U	12	28-C2-26-070U	14	28-M4-44-250-44U	21
28-B2-24-120U	12	28-C2-28-040U	14	28-M4-46-250-46U	21
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28-L2-13-080U	13	28-M4-44-105-44U	20	28-N4-46-164-46U	22
28-L2-13-100U	13	28-M4-46-105-46U	20	28-N4-22-199-22U	23
28-L2-13-120U	13	28-M4-22-150-22U	20	28-N4-24-199-24U	23
28-L2-13-140U	13	28-M4-24-150-24U	20	28-N4-26-204-26U	23
28-L2-13-160U	13	28-M4-26-155-26U	20	28-N4-28-204-28U	23
28-L2-15-080U	13	28-M4-28-155-28U	20	28-N4-30-209-30U	23
28-L2-15-100U	13	28-M4-30-155-30U	20	28-N4-32-209-32U	23
28-L2-15-120U	13	28-M4-32-155-32U	20	28-N4-34-209-34U	23
28-L2-15-140U	13	28-M4-34-145-34U	20	28-N4-36-199-36U	23
28-L2-15-160U	13	28-M4-36-145-36U	20	28-N4-38-199-38U	23
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28-L2-20-140U	13	28-M4-28-195-28U	21	28-N4-30-259-30U	23
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28-L2-24-100U	13	28-M4-34-200-34U	21	28-N4-36-259-36U	23
28-L2-24-120U	13	28-M4-36-190-36U	21	28-N4-38-259-38U	23
28-L2-24-140U	13	28-M4-38-190-38U	21	28-N4-40-259-40U	23
28-L2-24-160U	13	28-M4-40-195-40U	21	28-N4-42-259-42U	23
28-C2-20-040U	14	28-M4-42-195-42U	21	28-N4-44-259-44U	23
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28-C2-20-070U	14	28-M4-46-200-46U	21	28-M4-28-155-24U	24
28-C2-22-040U	14	28-M4-22-250-22U	21	28-M4-30-155-26U	24
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28-M4-28-195-24U.....	24	THP3036 X 150E.....	30	732526E.....	34
28-M4-30-200-26U.....	24	THP3038 X 150E.....	30	733026E.....	34
28-M4-32-200-28U.....	24	THP3040 X 150E.....	30	735026E.....	34
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28-M4-42-195-38U.....	24	THA2830 X 100E.....	31	733028E.....	34
28-M4-44-200-40U.....	24	THA3032 X 100E.....	31	735028E.....	34
28-M4-46-200-42U.....	24	THA3034 X 100E.....	31	736028E.....	34
28-M4-28-250-24U.....	24	THA3036 X 100E.....	31	731030E.....	34
28-M4-30-250-26U.....	24	THA3038 X 100E.....	31	732030E.....	34
28-M4-32-250-28U.....	24	THA3040 X 100E.....	31	733030E.....	34
28-M4-34-250-30U.....	24	THA3240 X 100E.....	31	734030E.....	34
28-M4-36-250-32U.....	24	THA2224 X 150E.....	31	735030E.....	34
28-M4-38-250-34U.....	24	THA2426 X 150E.....	31	736030E.....	34
28-M4-40-250-36U.....	24	THA2628 X 150E.....	31	731032E.....	34
28-M4-42-250-38U.....	24	THA2830 X 150E.....	31	732032E.....	34
28-M4-44-250-40U.....	24	THA3032 X 150E.....	31	733032E.....	34
28-M4-46-250-42U.....	24	THA3034 X 150E.....	31	734032E.....	34
28-N4-28-164-24U.....	25	THA3036 X 150E.....	31	735032E.....	34
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28-N4-32-164-28U.....	25	THA3040 X 150E.....	31	731034E.....	34
28-N4-34-154-30U.....	25	THA3240 X 150E.....	31	732034E.....	34
28-N4-36-154-32U.....	25	731506E.....	33	733034E.....	34
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28-N4-40-154-36U.....	25	734006E.....	33	735034E.....	34
28-N4-42-159-38U.....	25	736006E.....	33	736034E.....	34
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73301088/8E	37	7328148/10RMFE	41	634008PE	48
73321088/8E	37	7330148/10RMFE	41	636008PE	48
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73321088/10E	37	732034CX4RME	42	633014PE	48
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732010108/8RPE	38	734022CX4RMSE	42	631516PE	48
732210108/8RPE	38	734024CX4RMSE	42	633016PE	48
732410108/8RPE	38	734026CX4RMSE	42	636016PE	48
732610108/8RPE	38	734028CX4RMSE	42	631218PE	48
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733010108/8RPE	38	734032CX4RMSE	42	635018PE	48
733210108/8RPE	38	734034CX4RMSE	42	631220PE	48
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 Distributed by: Bolton Medical Inc, 799 International Parkway, Sunrise, Florida 33325, USA
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