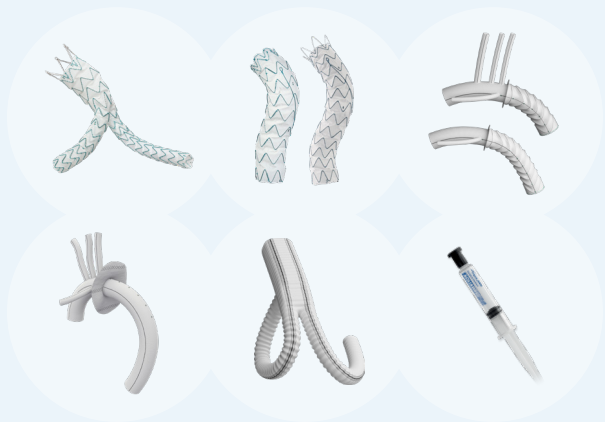


CE MARKED



CATALOGUE

# 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](https://terumoaortic.com)



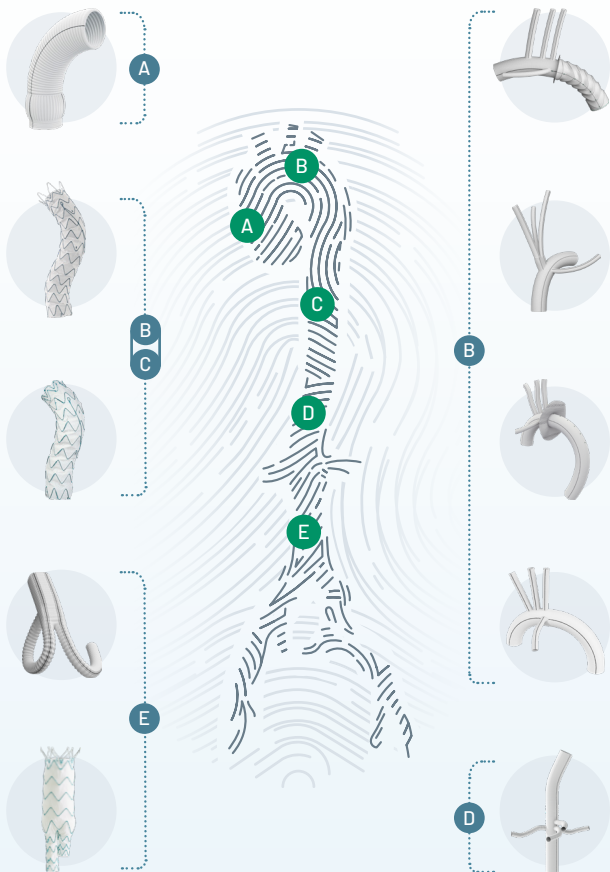
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VuMedi



X



This page illustrates a range of the complete Portfolio

# Table of Contents

## Endovascular Grafts

TREO® Abdominal Stent-Graft System	5
Relay® Pro Thoracic Stent-Graft System	13

## Hybrid Grafts

Thoraflex™ Hybrid Plexus and Thoraflex™ Hybrid Ante-Flo	24
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## Open Surgical Grafts

Gelweave™ Product Family	30
Straight Graft	31
Valsalva Graft	33
Ante-Flo Graft	34
Plexus Graft	35
Plexus Collared Grafts	36
Siena Collared Branched Grafts with Radiopaque Markers	37
Bavaria Zone 2 Grafts	38
Branched Grafts	40
Debranching Arch Grafts	41
Thoracoabdominal Grafts	43
Bifurcate Grafts	44
Gelsoft™ Plus Product Family	45
Straight Graft	46
Bifurcate Grafts	47

## AQUABRID™

AQUABRID™	48
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## References

References	51
Index	52



TREO

Versatile By Design.  
Fit For Any Anatomy\*

\*PerIFU

**TREO**<sup>®</sup>  
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 in adult patients who have appropriate anatomy as described below:

- ▶ Adequate iliac or femoral access compatible with the required delivery systems
- ▶ Suprarenal neck angle of less than 45 degrees

### Infrarenal landing neck length:

≥10mm with <60° infrarenal angle & inside diameter of 17mm-32mm

Or ≥15mm with infrarenal angle between 60°-75° & inside diameter of 16mm-30mm

### Distal Iliac landing neck of inside diameter:

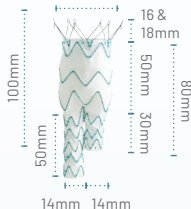
8mm-13mm with length at least 10mm

Or >13mm-20mm with length at least 15mm

# TREO Sizing

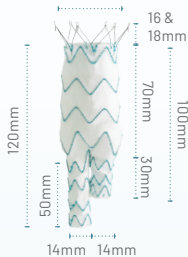
## Bifurcate

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



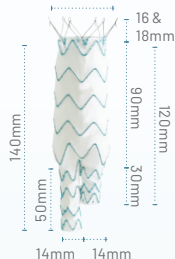
## Bifurcate

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



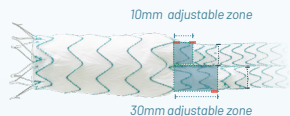
## Bifurcate

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

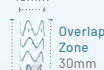
15mm



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
				

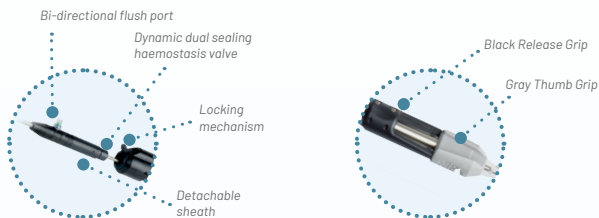


## 1 INTRODUCER AND LEAVE BEHIND SHEATH

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

## 2 PROXIMAL CLASPING

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



### 3 PRECISE DELIVERY SYSTEM

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

### 4 PROXIMAL CLASP RELEASE

- ▶ Intuitive mechanism releases the bare/proximal stent

# 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 <sup>^</sup>	Catalogue Number
17-18	20	80	18 Fr		28-B2-20-080S
	20	100	18 Fr	•	28-B2-20-100S
	20	120	18 Fr	•	28-B2-20-120S
18-19	22	80	18 Fr		28-B2-22-080S
	22	100	18 Fr		28-B2-22-100S
	22	120	18 Fr	•	28-B2-22-120S
19-21	24	80	18 Fr		28-B2-24-080S
	24	100	18 Fr		28-B2-24-100S
	24	120	18 Fr	•	28-B2-24-120S
21-23	26	80	18 Fr		28-B2-26-080S
	26	100	18 Fr		28-B2-26-100S
	26	120	18 Fr		28-B2-26-120S
23-25	28	80	18 Fr		28-B2-28-080S
	28	100	18 Fr		28-B2-28-100S
	28	120	18 Fr		28-B2-28-120S
25-27	30	80	19 Fr		28-B2-30-080S
	30	100	19 Fr		28-B2-30-100S
	30	120	19 Fr		28-B2-30-120S
27-30	33	80	19 Fr		28-B2-33-080S
	33	100	19 Fr		28-B2-33-100S
	33	120	19 Fr		28-B2-33-120S
30-32	36	80	19 Fr		28-B2-36-080S
	36	100	19 Fr		28-B2-36-100S
	36	120	19 Fr		28-B2-36-120S

<sup>^</sup> 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 <sup>^</sup>	Catalogue Number
8	10	9	80	13 Fr	•	28-L2-09-080S
	10	9	100	13 Fr	•	28-L2-09-100S
	10	9	120	13 Fr		28-L2-09-120S
	10	9	140	13 Fr		28-L2-09-140S
	10	9	160	13 Fr		28-L2-09-160S
9	10	11	80	13 Fr		28-L2-11-080S
	10	11	100	13 Fr		28-L2-11-100S
	10	11	120	13 Fr		28-L2-11-120S
	10	11	140	13 Fr		28-L2-11-140S
	10	11	160	13 Fr		28-L2-11-160S
10-11	10	13	80	13 Fr		28-L2-13-080S
	10	13	100	13 Fr		28-L2-13-100S
	10	13	120	13 Fr		28-L2-13-120S
	10	13	140	13 Fr		28-L2-13-140S
	10	13	160	13 Fr		28-L2-13-160S
12-13	10	15	80	13 Fr		28-L2-15-080S
	10	15	100	13 Fr		28-L2-15-100S
	10	15	120	13 Fr		28-L2-15-120S
	10	15	140	13 Fr		28-L2-15-140S
	10	15	160	13 Fr		28-L2-15-160S
14-15	15	17	80	14 Fr		28-L2-17-080S
	15	17	100	14 Fr		28-L2-17-100S
	15	17	120	14 Fr		28-L2-17-120S
	15	17	140	14 Fr		28-L2-17-140S
	15	17	160	14 Fr		28-L2-17-160S
16-17	15	20	80	14 Fr		28-L2-20-080S
	15	20	100	14 Fr		28-L2-20-100S
	15	20	120	14 Fr		28-L2-20-120S
	15	20	140	14 Fr		28-L2-20-140S
	15	20	160	14 Fr		28-L2-20-160S
18-20	15	24	80	14 Fr		28-L2-24-080S
	15	24	100	14 Fr		28-L2-24-100S
	15	24	120	14 Fr		28-L2-24-120S
	15	24	140	14 Fr		28-L2-24-140S
	15	24	160	14 Fr		28-L2-24-160S

<sup>^</sup> 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

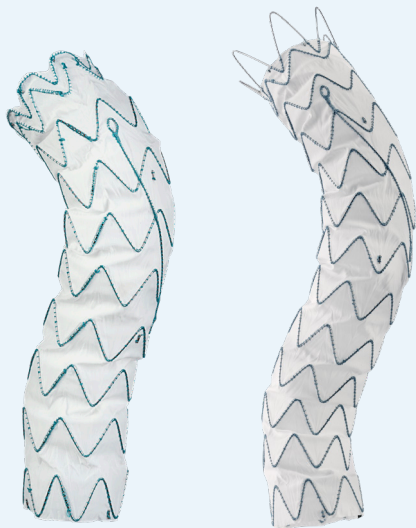
Aortic Outer Diameter	Proximal and Distal Diameter	Covered Length	Profile	MTO <sup>A</sup>	Catalogue Number
17-18	20	40	18 Fr	•	28-C2-20-040S
	20	55	18 Fr	•	28-C2-20-055S
	20	70	18 Fr		28-C2-20-070S
18-19	22	40	18 Fr		28-C2-22-040S
	22	55	18 Fr	•	28-C2-22-055S
	22	70	18 Fr		28-C2-22-070S
19-21	24	40	18 Fr		28-C2-24-040S
	24	55	18 Fr	•	28-C2-24-055S
	24	70	18 Fr		28-C2-24-070S
21-23	26	40	18 Fr		28-C2-26-040S
	26	55	18 Fr	•	28-C2-26-055S
	26	70	18 Fr		28-C2-26-070S
23-25	28	40	18 Fr		28-C2-28-040S
	28	55	18 Fr	•	28-C2-28-055S
	28	70	18 Fr		28-C2-28-070S
25-27	30	40	19 Fr		28-C2-30-040S
	30	55	19 Fr	•	28-C2-30-055S
	30	70	19 Fr		28-C2-30-070S
27-30	33	40	19 Fr		28-C2-33-040S
	33	55	19 Fr	•	28-C2-33-055S
	33	70	19 Fr		28-C2-33-070S
30-32	36	40	19 Fr		28-C2-36-040S
	36	55	19 Fr	•	28-C2-36-055S
	36	70	19 Fr		28-C2-36-070S

## Straight Extension Stent-Graft<sup>#</sup>

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

<sup>A</sup> 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.

<sup>#</sup> 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 treatment of thoracic aortic pathologies such as aneurysms, pseudoaneurysms, dissections, penetrating ulcers and intramural hematomas in adult patients (*as defined by local statutes*).






### Target Landing Zone

Stent-Graft Diameter (mm)	Proximal Length (mm) Bare Stent Configuration	Proximal Length (mm) NBS Configuration	Distal Length (mm) Bare Stent & NBS Configuration
22-28	15	22	25
30-38	20	25	25
40-46	25	30	30

### Relay®Pro

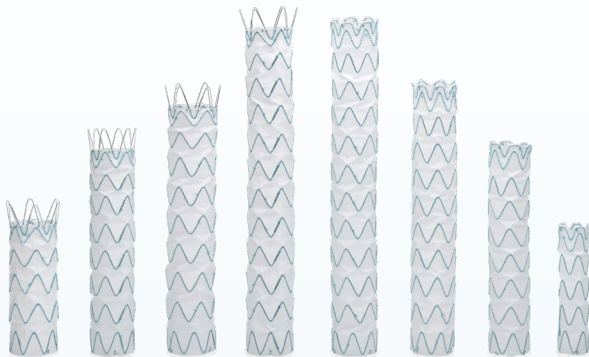
Proximal Stent Graft Diameter	22-30mm	32-36mm	38-40mm	42-46mm
Profile Outer Diameter (OD)	19Fr	20Fr	21Fr	22Fr
				

### 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
					

## 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.

# 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

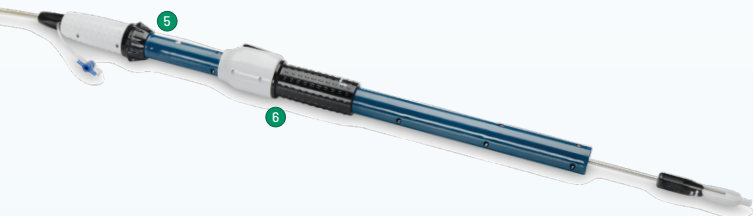
- ▶ 30cm length
- ▶ Designed to provide navigability and to ensure accurate deployment, minimising trauma to surrounding anatomy



Controller



Mechanical Advantage



#### 4 COILED OUTER SHEATH

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

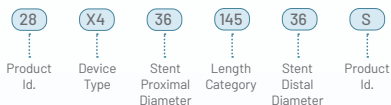
#### 5 CONTROLLER

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

#### 6 MECHANICAL ADVANTAGE

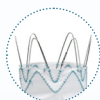
- ▶ Forward and backward gear system allows for small incremental movements of the stent-graft enhancing controlled delivery

## Relay®Pro Product Ordering Information



## Device Type Key

X =  
M = Bare Stent  
N = NBS



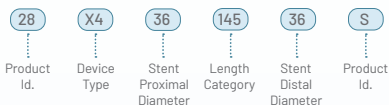
## Bare Stent: Straight

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

<sup>^</sup> 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.

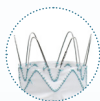
All measurements in mm unless otherwise specified. Select the appropriate device size based on artery outer diameter measurement taken from CT images.

## Relay®Pro Product Ordering Information



## Device Type Key

X =  
M = Bare Stent  
N = NBS



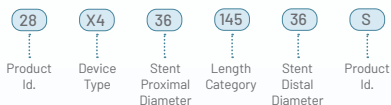
## Bare Stent: Straight

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

<sup>^</sup> 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



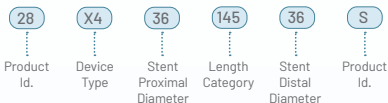
## Non-Bare Stent: Straight

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

^ 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.

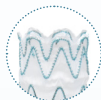
All measurements in mm unless otherwise specified. Select the appropriate device size based on artery outer diameter measurement taken from CT images.

## Relay®Pro Product Ordering Information



## Device Type Key

X = Bare Stent  
N = NBS



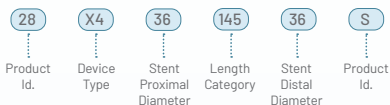
## Non-Bare Stent: Straight

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

^ 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



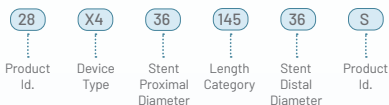
## Bare Stent: Tapered

	Vessel		Stent-graft		Delivery System		Catalogue 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-M4-28-155-24S
	26-27	22-23	30/26	155	19Fr		28-M4-30-155-26S
	28-29	24-25	32/28	155	20Fr		28-M4-32-155-28S
	30-31	26-27	34/30	145	20Fr		28-M4-34-145-30S
	32-33	28-29	36/32	145	20Fr		28-M4-36-145-32S
	34	30-31	38/34	145	21Fr		28-M4-38-145-34S
	35-36	32-33	40/36	145	21Fr		28-M4-40-145-36S
	37-38	34	42/38	150	22Fr		28-M4-42-150-38S
	39-40	35-36	44/40	155	22Fr		28-M4-44-155-40S
	41-42	37-38	46/42	155	22Fr	•	28-M4-46-155-42S
200mm	24-25	20-21	28/24	195	19Fr		28-M4-28-195-24S
	26-27	22-23	30/26	200	19Fr		28-M4-30-200-26S
	28-29	24-25	32/28	200	20Fr		28-M4-32-200-28S
	30-31	26-27	34/30	200	20Fr		28-M4-34-200-30S
	32-33	28-29	36/32	190	20Fr		28-M4-36-190-32S
	34	30-31	38/34	190	21Fr		28-M4-38-190-34S
	35-36	32-33	40/36	195	21Fr		28-M4-40-195-36S
	37-38	34	42/38	195	22Fr		28-M4-42-195-38S
	39-40	35-36	44/40	200	22Fr		28-M4-44-200-40S
	41-42	37-38	46/42	200	22Fr	•	28-M4-46-200-42S
250mm	24-25	20-21	28/24	250	19Fr		28-M4-28-250-24S
	26-27	22-23	30/26	250	19Fr		28-M4-30-250-26S
	28-29	24-25	32/28	250	20Fr		28-M4-32-250-28S
	30-31	26-27	34/30	250	20Fr		28-M4-34-250-30S
	32-33	28-29	36/32	250	20Fr		28-M4-36-250-32S
	34	30-31	38/34	250	21Fr		28-M4-38-250-34S
	35-36	32-33	40/36	250	21Fr		28-M4-40-250-36S
	37-38	34	42/38	250	22Fr	•	28-M4-42-250-38S
	39-40	35-36	44/40	250	22Fr	•	28-M4-44-250-40S
	41-42	37-38	46/42	250	22Fr	•	28-M4-46-250-42S

^ 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

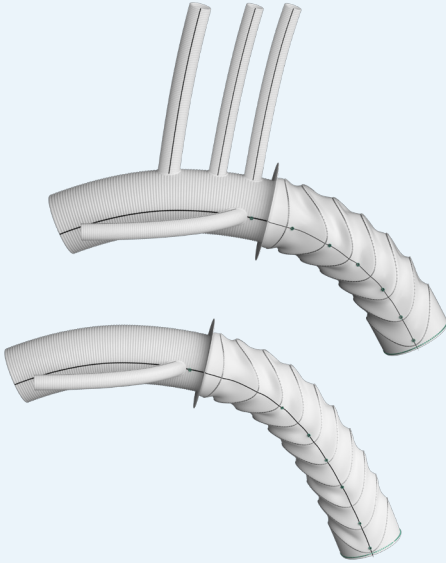


## Non-Bare Stent: Tapered

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

<sup>^</sup> 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

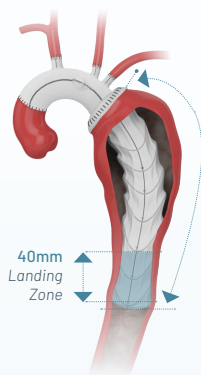
Conforming Arch Surgery to the  
Gold Standard

 thoraflex™ hybrid

## Indications for Use

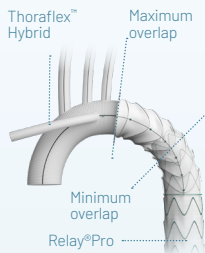
The world's first multi-branched Frozen Elephant Trunk Device with Plexus & Ante-Flo™ configurations for individual arch vessel reconstruction or the Island Technique.

The **Thoraflex™ Hybrid** device is indicated to treat a damaged or diseased aortic arch and descending aorta in cases such as aneurysm and dissection, with or without involvement of the ascending aorta.



**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.

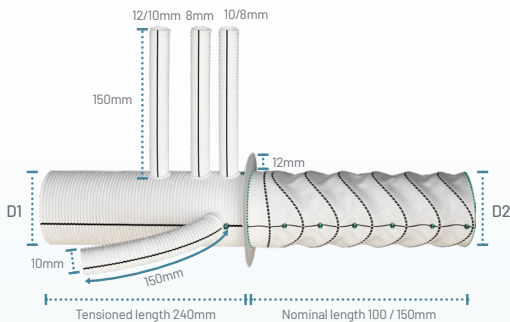
Adjunctive devices with barb or hook features which would be positioned in the overlap region should not be used.



\* Product availability subject to local regulatory approval

## Thoraflex™ Hybrid Plexus

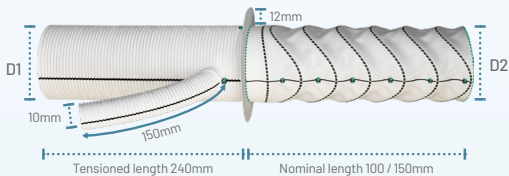
Thoraflex Hybrid Plexus facilitates individual arch vessel reconstruction.



Note: drawing not to scale

## Thoraflex™ Hybrid Ante-Flo™

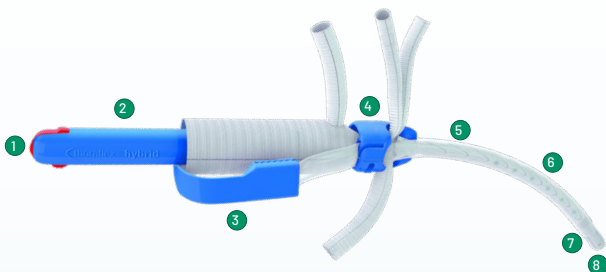
Thoraflex Hybrid Ante-Flo facilitates the island technique.



Note: drawing not to scale

# Flexible & Compact Delivery System

Intuitive design with enhanced deployment performance for accurate positioning.



## 1 RELEASE WIRE CLIP

- ▶ Designed to detach graft from delivery system

## 2 HANDLE

- ▶ Control during deployment
- ▶ Visualization of operating field

## 3 STRAP HANDLE

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

## 4 SHEATH SPLITTER

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

## 5 PTFE SHEATH (30F)

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

## 6 MALLEABLE SHAFT

- ▶ Adaptable to patient anatomy
- ▶ Can be reshaped

## 7 ATRAUMATIC TIP

- ▶ 30F diameter (10mm)

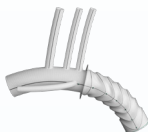
## 8 (2X) 0.035" GUIDEWIRE ACCESS PORTS

- ▶ Delivery system introduction
- ▶ Accurate placement of stent

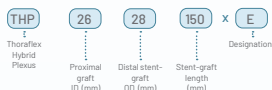


# Thoraflex™ Hybrid Product Ordering Information

## Plexus Device



### Catalogue Number Explanation



### 100mm Stent Length

Graft ID - D1 (mm)	Stent-Graft OD - D2 (mm)	Catalogue 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)	Catalogue 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



## Catalogue Number Explanation



## 100mm Stent Length

Graft ID - D1 (mm)	Stent-Graft OD - D2 (mm)	Catalogue 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

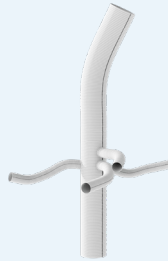
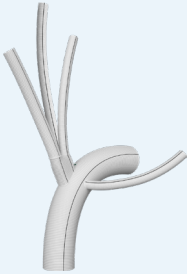
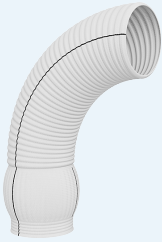
## 150mm Stent Length

Graft ID - D1 (mm)	Stent-Graft OD - D2 (mm)	Catalogue 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)



## 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 to replace or bypass dissection, aneurysmal and occlusive disease of the thoracic, thoracoabdominal and abdominal aorta.



## Straight graft

Bore Size (mm)	Usable Length (cm)	Catalogue 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)	Catalogue 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
32	60	736032E
34	10	731034E
34	20	732034E
34	30	733034E
34	40	734034E
34	50	735034E
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 graft<sup>1</sup> indicated for aortic root replacement in cases of aneurysm or dissection.



### Valsalva graft

Bore Size (mm)	Max Skirt Diameter (mm)	Body Length (cm)	Skirt Length (mm)	Collar Length (mm)	Catalogue 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 time<sup>2</sup> and lower risk of neurological deficits<sup>3</sup>.

Gelweave™ Vascular Prostheses with an 'Ante-Flo' side branch are intended to allow perfusion of the graft during the implant procedure.



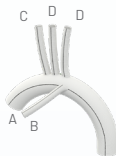
### Ante-Flo graft

Bore Size (mm)		Usable Length (cm)		
Main Body	Side Branch	Main Body	Side Branch	Catalogue 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 to replace dissection, aneurysmal and occlusive disease of the thoracic aorta.



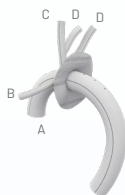
### 4-branch plexus graft

Bore Size (mm)				Usable Length (cm)				Catalogue 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 designs are indicated to replace dissection, aneurysmal and occlusive disease of the thoracic aorta.



### Radial plexus with radiopaque markers

Bore Size (mm)				Usable Length (cm)				Catalogue 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

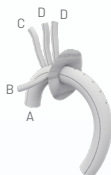
**Note:**

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 is intended for use in the first stage of conventional elephant trunk procedures and are indicated to replace dissection, aneurysmal and occlusive disease of the thoracic aorta.



### Siena 4-branch Plexus graft with radiopaque markers

Bore Size (mm)				Usable Length (cm)				Catalogue 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

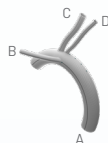
**Note:**

100mm diameter collar.

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, indicated to replace dissection, aneurysmal and occlusive disease of the thoracic aorta.



### Bavaria zone 2 graft

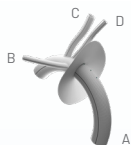
Bore Size (mm)				Usable Length (cm)				Catalogue Number
Main Body (A)	Side Branch (B)	Arch Branch (C)	Arch Branch (D)	Main Body (A)	Side Branch (B)	Arch Branch (C)	Arch Branch (D)	
20	10	12	8	50	15	15	15	7320128/10RMEE
22	10	12	8	50	15	15	15	7322128/10RMEE
24	10	12	8	50	15	15	15	7324128/10RMEE
26	10	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)				Catalogue 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.

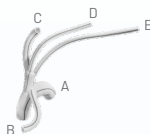
100mm diameter collar.

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

## Gelweave™ Branched Grafts

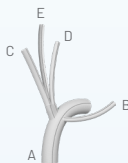
Gelweave™ Branched grafts are indicated to replace dissection, aneurysmal and occlusive disease of the thoracic aorta.

### Thoracic arch graft with radiopaque markers



Bore Size (mm)					Usable Length (cm)					Catalogue 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)					Catalogue 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)	Catalogue 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)				Catalogue 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

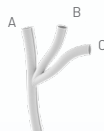


Hybrid procedures are defined as a treatment combination employing open surgical debranching with endovascular aortic repair.

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

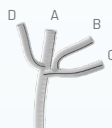
Trifurcate arch Y graft



Bore Size (mm)			Usable Length (cm)			
Main Body (A)	Branch (B)	Branch (C)	Main Body (A)	Branch (B)	Branch (C)	Catalogue 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

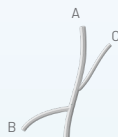
## W Arch Graft

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)	Catalogue 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



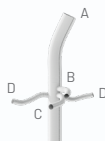
Bore Size (mm)			Usable Length (cm)			
Main Body (A)	Side Branch (B)	Branch (C)	Main Body (A)	Side Branch (B)	Branch (C)	Catalogue Number
12	10	8	22	25	13	732212/10/8CRME
14	10	10	22	25	13	732214/10/10CRME
12	10	8	22	10	13	732212/10/8ARME
14	10	10	22	10	13	732214/10/10ARME

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

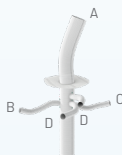
Gelweave™ thoracoabdominal gelatin sealed grafts are indicated to replace or bypass dissection, aneurysmal and occlusive disease of the thoracoabdominal and abdominal aorta in conjunction with their associated branch vessels.

## Coselli Thoracoabdominal graft



Bore Size (mm)				Usable Length (cm)				Catalogue 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)				Catalogue 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

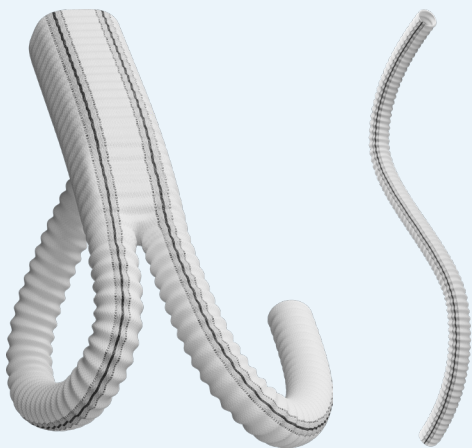
Gelweave™ bifurcate grafts are gelatin sealed, woven polyester grafts indicated to replace or bypass dissection, aneurysmal and occlusive disease of the abdominal aorta in conjunction with their associated branch vessels.

### Bifurcate graft

Main Bore Size (mm)	Leg Bore Size (mm)	Usable Length (cm)	Catalogue 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 to replace or bypass aneurysmal and occlusive disease of the abdominal aorta and the lower extremity peripheral arteries.

### Straight graft

Bore Size (mm)	Usable Length (cm)	Catalogue 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

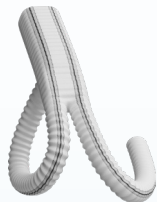


## Gelsoft™ Plus Bifurcate Grafts

The Gelsoft™ Plus Bifurcate Grafts are indicated to replace or bypass aneurysmal and occlusive disease of the abdominal aorta and the lower extremity peripheral arteries.

### Bifurcate graft

Main Bore Size (mm)	Leg Bore Size (mm)	Usable Length (cm)	Catalogue 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.



## AQUABRID™ SURGICAL SEALANT

Strong and Elastic,  
Ideal for Wet Conditions.

Visit our website for more information on use, indications, contraindications, warnings/ precautions and availability within your market.

Product availability subject to local regulatory approval. HYDROFIT® & AQUABRID™ are registered trademarks of Sanyo Chemical Industries, Ltd.

## Indications for Use

AQUABRID™ is a fully synthetic surgical sealant for aortic surgical procedures. In contact with water AQUABRID™ forms an elastic layer within 3 to 5 minutes – making it optimal for use on wet conditions.<sup>4,5</sup> AQUABRID™ stretches and shrinks with contraction of the vessel, while maintaining a strong seal in the aorta.<sup>4,5</sup>

AQUABRID™ has been commercially available in Japan since 2014 under the name of HYDROFIT®.

### Features, Functions and Benefits:



#### Reacts with water<sup>4,5</sup>

Optimal use for wet surfaces, regardless of heparinisation conditions



#### Strong<sup>4,5</sup>

Maintains bond/seal in the high pressure environment of the aorta



#### Elastic<sup>4,5</sup>

Stretches and shrinks with the vessel contractions



#### Ready to use<sup>6</sup>

No manual mixing or preparation required



#### 100% synthetic<sup>5</sup>

No biological origin or risk of infection

Product	Order Units	Catalogue Number
AQUABRID™ Surgical Sealant	Box of 10	MAB2G-01

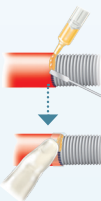
## Application of AQUABRID™

Only a thin layer of AQUABRID™ is required.  
The sealant is cured after 3-5 mins<sup>4,5</sup>

### Direct Method

Apply AQUABRID™ directly from the syringe to the bleeding spot

Place or wrap the silicone sheet around the vessel (if needed)



### Transfer Method

Spread AQUABRID™ onto the included silicone sheet for areas hard to reach

Place or wrap the silicone sheet on the bleeding spot



## Ideal to Support Aortic Anastomosis

Due to its hydrophilic properties AQUABRID™ can be applied to the aortic anastomosis immediately.

It stretches and shrinks with the vessel contractions while maintaining a strong seal.<sup>4,5</sup>

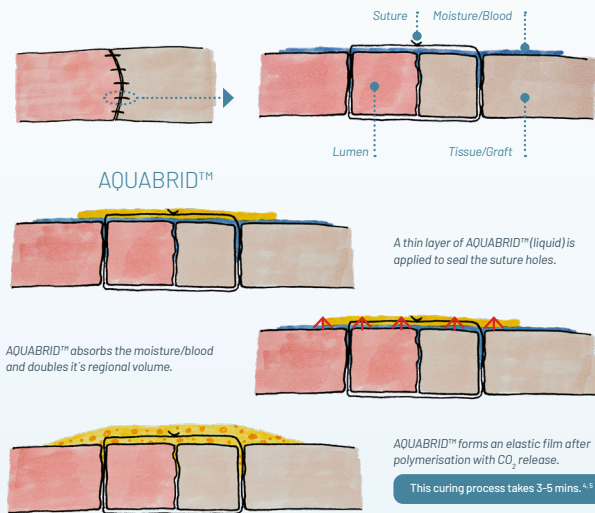


Reduction in time associated with bleeding control<sup>7</sup>

Reduction in number of blood transfusions<sup>7</sup>

### How does AQUABRID™ work?

AQUABRID™ can be applied to natural and/or artificial tissue (e.g. aortic graft). The surgical site does not need to be dry, AQUABRID™ requires blood/moisture for reaction.



## References

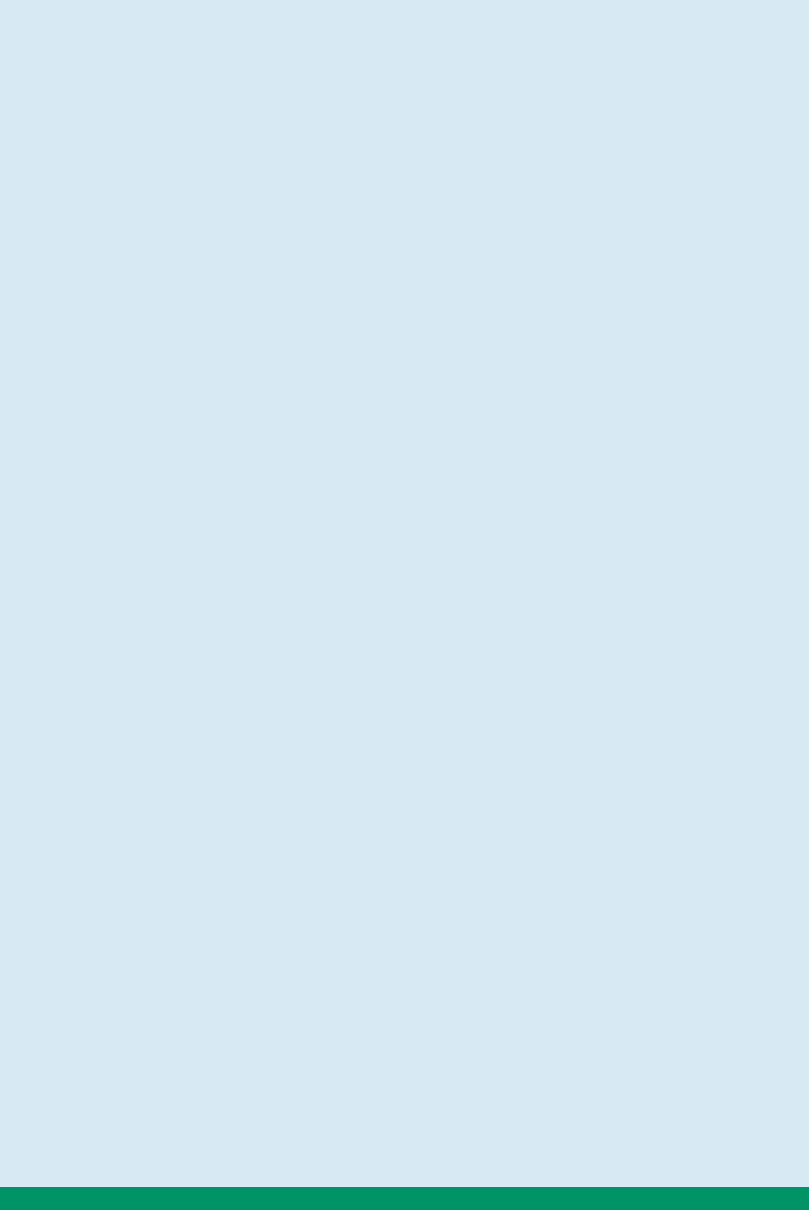
1. De Paulis R et al. (2000). A New Aortic Dacron Conduit for Surgical Treatment of Aortic Root Pathology. *Italian Heart Journal*. July; 1(7):457-463.
2. Ehrlich M et al. (1994). Operative Management of Aortic Aneurysms Using Profound Hypothermia & Circulatory Arrest. *International Congress on Thoracic & Thoracoabdominal Aortic Aneurysm*. 12-14 June; 23(26).
3. Ehrlich M et al. (1997). The Use of Profound Hypothermia and Circulatory Arrest in Operations on the Thoracic Aorta. *European Journal Cardio-Thoracic Surgery*. January; 11(1):176-181.
4. Eto M et al. (2007) Elastometric Surgical Sealant for hemostasis of cardiovascular anastomosis under full heparinization. *European Journal of Cardio-Thoracic Surgery*. November; 32(5); pp730-734.
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# Index

28-B2-20-080S	12	28-C2-22-070S	14	28-M4-34-250-34S	21
28-B2-20-100S	12	28-C2-24-040S	14	28-M4-36-250-36S	21
28-B2-20-120S	12	28-C2-24-055S	14	28-M4-38-250-38S	21
28-B2-22-080S	12	28-C2-24-070S	14	28-M4-40-250-40S	21
28-B2-22-100S	12	28-C2-26-040S	14	28-M4-42-250-42S	21
28-B2-22-120S	12	28-C2-26-055S	14	28-M4-44-250-44S	21
28-B2-24-080S	12	28-C2-26-070S	14	28-M4-46-250-46S	21
28-B2-24-100S	12	28-C2-28-040S	14	28-N4-22-099-22S	22
28-B2-24-120S	12	28-C2-28-055S	14	28-N4-24-099-24S	22
28-B2-26-080S	12	28-C2-28-070S	14	28-N4-26-104-26S	22
28-B2-26-100S	12	28-C2-30-040S	14	28-N4-28-104-28S	22
28-B2-26-120S	12	28-C2-30-055S	14	28-N4-30-104-30S	22
28-B2-28-080S	12	28-C2-30-070S	14	28-N4-32-104-32S	22
28-B2-28-100S	12	28-C2-33-040S	14	28-N4-34-109-34S	22
28-B2-28-120S	12	28-C2-33-055S	14	28-N4-36-109-36S	22
28-B2-28-080S	12	28-C2-33-070S	14	28-N4-38-109-38S	22
28-B2-28-100S	12	28-C2-36-040S	14	28-N4-40-114-40S	22
28-B2-28-120S	12	28-C2-36-055S	14	28-N4-42-114-42S	22
28-B2-30-080S	12	28-C2-36-070S	14	28-N4-44-114-44S	22
28-B2-30-100S	12	28-S2-09-080S	14	28-N4-46-114-46S	22
28-B2-30-120S	12	28-S2-11-080S	14	28-N4-22-159-22S	22
28-B2-33-080S	12	28-S2-13-080S	14	28-N4-24-159-24S	22
28-B2-33-100S	12	28-M4-22-090-22S	20	28-N4-26-164-26S	22
28-B2-33-120S	12	28-M4-24-090-24S	20	28-N4-28-164-28S	22
28-B2-36-080S	12	28-M4-26-095-26S	20	28-N4-30-164-30S	22
28-B2-36-100S	12	28-M4-28-095-28S	20	28-N4-32-164-32S	22
28-B2-36-120S	12	28-M4-30-095-30S	20	28-N4-34-154-34S	22
28-L2-09-080S	13	28-M4-32-095-32S	20	28-N4-36-154-36S	22
28-L2-09-100S	13	28-M4-34-100-34S	20	28-N4-38-154-38S	22
28-L2-09-120S	13	28-M4-36-100-36S	20	28-N4-40-154-40S	22
28-L2-09-140S	13	28-M4-38-100-38S	20	28-N4-42-159-42S	22
28-L2-09-160S	13	28-M4-40-105-40S	20	28-N4-44-164-44S	22
28-L2-11-080S	13	28-M4-42-105-42S	20	28-N4-46-164-46S	22
28-L2-11-100S	13	28-M4-44-105-44S	20	28-N4-22-199-22S	23
28-L2-11-120S	13	28-M4-46-105-46S	20	28-N4-24-199-24S	23
28-L2-11-140S	13	28-M4-22-150-22S	20	28-N4-26-204-26S	23
28-L2-11-160S	13	28-M4-24-150-24S	20	28-N4-28-204-28S	23
28-L2-13-080S	13	28-M4-26-155-26S	20	28-N4-30-209-30S	23
28-L2-13-100S	13	28-M4-28-155-28S	20	28-N4-32-209-32S	23
28-L2-13-120S	13	28-M4-30-155-30S	20	28-N4-34-209-34S	23
28-L2-13-140S	13	28-M4-32-155-32S	20	28-N4-36-199-36S	23
28-L2-13-160S	13	28-M4-34-145-34S	20	28-N4-38-199-38S	23
28-L2-15-080S	13	28-M4-36-145-36S	20	28-N4-40-204-40S	23
28-L2-15-100S	13	28-M4-38-145-38S	20	28-N4-42-204-42S	23
28-L2-15-120S	13	28-M4-40-145-40S	20	28-N4-44-209-44S	23
28-L2-15-140S	13	28-M4-42-150-42S	20	28-N4-46-209-46S	23
28-L2-15-160S	13	28-M4-44-155-44S	20	28-N4-22-259-22S	23
28-L2-17-080S	13	28-M4-46-155-46S	20	28-N4-24-259-24S	23
28-L2-17-100S	13	28-M4-22-190-22S	21	28-N4-26-259-26S	23
28-L2-17-120S	13	28-M4-24-190-24S	21	28-N4-28-259-28S	23
28-L2-17-140S	13	28-M4-26-195-26S	21	28-N4-30-259-30S	23
28-L2-17-160S	13	28-M4-28-195-28S	21	28-N4-32-259-32S	23
28-L2-20-080S	13	28-M4-30-200-30S	21	28-N4-34-259-34S	23
28-L2-20-100S	13	28-M4-32-200-32S	21	28-N4-36-259-36S	23
28-L2-20-120S	13	28-M4-34-200-34S	21	28-N4-38-259-38S	23
28-L2-20-140S	13	28-M4-36-190-36S	21	28-N4-40-259-40S	23
28-L2-20-160S	13	28-M4-38-190-38S	21	28-N4-42-259-42S	23
28-L2-24-080S	13	28-M4-40-195-40S	21	28-N4-44-259-44S	23
28-L2-24-100S	13	28-M4-42-195-42S	21	28-N4-46-259-46S	23
28-L2-24-120S	13	28-M4-44-200-44S	21	28-M4-28-155-24S	24
28-L2-24-140S	13	28-M4-46-200-46S	21	28-M4-30-155-26S	24
28-L2-24-160S	13	28-M4-22-250-22S	21	28-M4-32-155-28S	24
28-C2-20-040S	14	28-M4-24-250-24S	21	28-M4-34-145-30S	24
28-C2-20-055S	14	28-M4-26-250-26S	21	28-M4-36-145-32S	24
28-C2-20-070S	14	28-M4-28-250-28S	21	28-M4-38-145-34S	24
28-C2-22-040S	14	28-M4-30-250-30S	21	28-M4-40-145-36S	24
28-C2-22-055S	14	28-M4-32-250-32S	21	28-M4-42-150-38S	24

28-M4-44-155-40S	24	THP3034 X 150E	30	732526E	34
28-M4-46-155-42S	24	THP3036 X 150E	30	733026E	34
28-M4-28-195-24S	24	THP3038 X 150E	30	735026E	34
28-M4-30-200-26S	24	THP3040 X 150E	30	736026E	34
28-M4-32-200-28S	24	THP3240 X 150E	30	730528E	34
28-M4-34-200-30S	24	THA2224 X 100E	31	731228E	34
28-M4-36-190-32S	24	THA2426 X 100E	31	732528E	34
28-M4-38-190-34S	24	THA2628 X 100E	31	733028E	34
28-M4-40-195-36S	24	THA2830 X 100E	31	735028E	34
28-M4-42-195-38S	24	THA3032 X 100E	31	736028E	34
28-M4-44-200-40S	24	THA3034 X 100E	31	731030E	34
28-M4-46-200-42S	24	THA3036 X 100E	31	732030E	34
28-M4-28-250-24S	24	THA3038 X 100E	31	733030E	34
28-M4-30-250-26S	24	THA3040 X 100E	31	734030E	34
28-M4-32-250-28S	24	THA3240 X 100E	31	735030E	34
28-M4-34-250-30S	24	THA2224 X 150E	31	736030E	34
28-M4-36-250-32S	24	THA2426 X 150E	31	731032E	34
28-M4-38-250-34S	24	THA2628 X 150E	31	732032E	34
28-M4-40-250-36S	24	THA2830 X 150E	31	733032E	34
28-M4-42-250-38S	24	THA3032 X 150E	31	734032E	34
28-M4-44-250-40S	24	THA3034 X 150E	31	735032E	34
28-M4-46-250-42S	24	THA3036 X 150E	31	736032E	34
28-N4-28-164-24S	25	THA3038 X 150E	31	731034E	34
28-N4-30-164-26S	25	THA3040 X 150E	31	732034E	34
28-N4-32-164-28S	25	THA3240 X 150E	31	733034E	34
28-N4-34-154-30S	25	731506E	33	734034E	34
28-N4-36-154-32S	25	733006E	33	735034E	34
28-N4-38-154-34S	25	734006E	33	736034E	34
28-N4-40-154-36S	25	736006E	33	731036E	34
28-N4-42-159-38S	25	731508E	33	733036E	34
28-N4-44-164-40S	25	733008E	33	734036E	34
28-N4-46-164-42S	25	734008E	33	736036E	34
28-N4-28-204-24S	25	736008E	33	731038E	34
28-N4-30-209-26S	25	731510E	33	732038E	34
28-N4-32-209-28S	25	733010E	33	733038E	34
28-N4-34-209-30S	25	736010E	33	734038E	34
28-N4-36-199-32S	25	731512E	33	736038E	34
28-N4-38-199-34S	25	733012E	33	730016ADPE	35
28-N4-40-204-36S	25	736012E	33	730018ADPE	35
28-N4-42-204-38S	25	731514E	33	730020ADPE	35
28-N4-44-209-40S	25	733014E	33	730022ADPE	35
28-N4-46-209-42S	25	736014E	33	730024ADPE	35
28-N4-28-259-24S	25	731516E	33	730026ADPE	35
28-N4-30-259-26S	25	733016E	33	730028ADPE	35
28-N4-32-259-28S	25	736016E	33	730030ADPE	35
28-N4-34-259-30S	25	731218E	33	730032ADPE	35
28-N4-36-259-32S	25	732518E	33	730034ADPE	35
28-N4-38-259-34S	25	733018E	33	734018/8E	36
28-N4-40-259-36S	25	735018E	33	734020/8E	36
28-N4-42-259-38S	25	736018E	33	734022/8E	36
28-N4-44-259-40S	25	731220E	33	734024/8E	36
28-N4-46-259-42S	25	732520E	33	734026/8E	36
THP2224 X 100E	30	733020E	33	734028/8E	36
THP2426 X 100E	30	735020E	33	734030/8E	36
THP2628 X 100E	30	736020E	33	734032/8E	36
THP2830 X 100E	30	731222E	33	734034/8E	36
THP3032 X 100E	30	732522E	33	732022/8E	36
THP3034 X 100E	30	733022E	33	732024/8E	36
THP3036 X 100E	30	735022E	33	732026/8E	36
THP3038 X 100E	30	736022E	33	732028/8E	36
THP3040 X 100E	30	731224E	34	732030/8E	36
		732524E	34	732032/8E	36
THP3240 X 100E	30	733024E	34	732034/8E	36
THP2224 X 150E	30	735024E	34	732022/10E	36
THP2426 X 150E	30	736024E	34	732024/10E	36
THP2628 X 150E	30	730526E	34	732026/10E	36
THP2830 X 150E	30	731226E	34	732028/10E	36
THP3032 X 150E	30				

732030/10E.....	36	7328128/10RMEE.....	40	732610108/8RME.....	45
732032/10E.....	36	7330128/10RMEE.....	40	732810108/8RME.....	45
732034/10E.....	36	7332128/10RMEE.....	40	733010108/8RME.....	45
734020/10SE.....	36	7320148/10RMEE.....	40	731206E.....	46
734022/10SE.....	36	7322148/10RMEE.....	40	731407E.....	46
734024/10SE.....	36	7324148/10RMEE.....	40	731608E.....	46
734026/10SE.....	36	7326148/10RMEE.....	40	731809E.....	46
734028/10SE.....	36	7328148/10RMEE.....	40	732010E.....	46
734030/10SE.....	36	7330148/10RMEE.....	40	732211E.....	46
734020/10E.....	36	7332148/10RMEE.....	40	73242E.....	46
734022/10E.....	36	7320128/10RMFE.....	41	631506PE.....	48
734024/10E.....	36	7322128/10RMFE.....	41	633006PE.....	48
734026/10E.....	36	7324128/10RMFE.....	41	634006PE.....	48
734028/10E.....	36	7326128/10RMFE.....	41	636006PE.....	48
734030/10E.....	36	7328128/10RMFE.....	41	631507PE.....	48
734032/10E.....	36	7330128/10RMFE.....	41	633007PE.....	48
734034/10E.....	36	7332128/10RMFE.....	41	634007PE.....	48
73201088/8E.....	37	7320148/10RMFE.....	41	636007PE.....	48
73221088/8E.....	37	7322148/10RMFE.....	41	631508PE.....	48
73241088/8E.....	37	7324148/10RMFE.....	41	633008PE.....	48
73261088/8E.....	37	7326148/10RMFE.....	41	634008PE.....	48
73281088/8E.....	37	7328148/10RMFE.....	41	636008PE.....	48
73301088/8E.....	37	7330148/10RMFE.....	41	631510PE.....	48
73321088/8E.....	37	7332148/10RMFE.....	41	633010PE.....	48
73341088/8E.....	37	732022CX4RME.....	42	636010PE.....	48
73201088/10E.....	37	732024CX4RME.....	42	631512PE.....	48
73221088/10E.....	37	732026CX4RME.....	42	633012PE.....	48
73241088/10E.....	37	732028CX4RME.....	42	636012PE.....	48
73261088/10E.....	37	732030CX4RME.....	42	631514PE.....	48
73281088/10E.....	37	732032CX4RME.....	42	633014PE.....	48
73301088/10E.....	37	732034CX4RME.....	42	636014PE.....	48
73321088/10E.....	37	734020CX4RMSE.....	42	631516PE.....	48
73341088/10E.....	37	734022CX4RMSE.....	42	633016PE.....	48
732010108/8RPE.....	38	734024CX4RMSE.....	42	636016PE.....	48
732210108/8RPE.....	38	734026CX4RMSE.....	42	631218PE.....	48
732410108/8RPE.....	38	734028CX4RMSE.....	42	632518PE.....	48
732610108/8RPE.....	38	734030CX4RMSE.....	42	635018PE.....	48
732810108/8RPE.....	38	734032CX4RMSE.....	42	631220PE.....	48
733010108/8RPE.....	38	734034CX4RMSE.....	42	632520PE.....	48
733210108/8RPE.....	38	732012/8X2E.....	43	635020PE.....	48
733410108/8RPE.....	38	732014/8X2E.....	43	631222PE.....	48
732010108/10RPE.....	38	732012/10X2E.....	43	632522PE.....	48
732210108/10RPE.....	38	732014/10X2E.....	43	635022PE.....	48
732410108/10RPE.....	38	731010/8X2E.....	43	631224PE.....	48
732610108/10RPE.....	38	731210/8X2E.....	43	632524PE.....	48
732810108/10RPE.....	38	73108/8X2E.....	43	635024PE.....	48
733010108/10RPE.....	38	73128/10X2E.....	43	631206PE.....	49
733210108/10RPE.....	38	732012/8X2AE.....	44	631407PE.....	49
73201088/8RME.....	39	732014/8X2AE.....	44	631608PE.....	49
73221088/8RME.....	39	732014/10X2AE.....	44	631809PE.....	49
73241088/8RME.....	39	7312108/8RME.....	44	632010PE.....	49
73261088/8RME.....	39	7312108/10RME.....	44	632211PE.....	49
73281088/8RME.....	39	7314108/8RME.....	44	632412PE.....	49
73301088/8RME.....	39	7314108/10RME.....	44	MAB2G-01.....	51
73321088/8RME.....	39	732212/10/8CRME.....	44		
73341088/8RME.....	39	732214/10/10CRME.....	44		
73201088/10RME.....	39	732212/10/8ARME.....	44		
73221088/10RME.....	39	732214/10/10ARME.....	44		
73241088/10RME.....	39	732010108/8S4E.....	45		
73261088/10RME.....	39	732210108/8S4E.....	45		
73281088/10RME.....	39	732410108/8S4E.....	45		
73301088/10RME.....	39	732610108/8S4E.....	45		
73321088/10RME.....	39	732810108/8S4E.....	45		
73341088/10RME.....	39	733010108/8S4E.....	45		
7320128/10RMEE.....	40	732010108/8RME.....	45		
7322128/10RMEE.....	40	732210108/8RME.....	45		
7324128/10RMEE.....	40	732210108/8RME.....	45		
7326128/10RMEE.....	40	732210108/8RME.....	45		
		732410108/8RME.....	45		



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