

# Gelweave™

## Thoracic and Thoracoabdominal Graft Geometries



Ante-Flo



Extra Length  
Ante-Flo with  
Offset Branch



4 Branch Plexus



Valsalva™



Siena™



Gelweave  
Trifurcate Arch



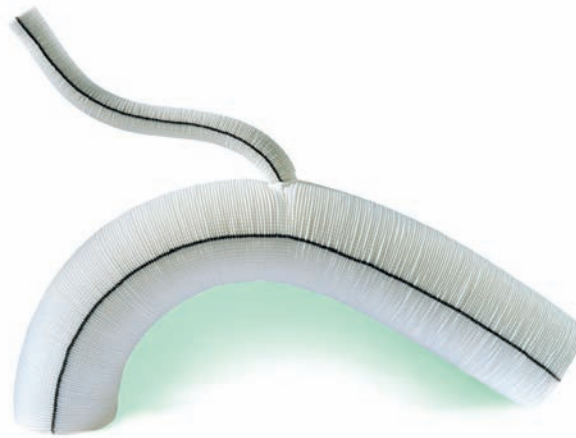
Thoracoabdominal  
Trifurcate



# Ante-Flo

## Aortic Arch Applications

- Antegrade flow made easy by the side branch for
  - Minimized circulatory arrest time and earlier patient re-warming<sup>1</sup>
  - Lower risk of neurological deficits<sup>2</sup>
  - Reduced chance of perfusing aortic false lumen<sup>1</sup>
- Convenience and graft integrity maintained



Bore size mm	Usable Length cm	Cat No.
20	40 x 1 @ 15	734020/8
22	40 x 1 @ 15	734022/8
24	40 x 1 @ 15	734024/8
26	40 x 1 @ 15	734026/8
28	40 x 1 @ 15	734028/8
30	40 x 1 @ 15	734030/8
32	40 x 1 @ 15	734032/8
34	40 x 1 @ 15	734034/8

Side Branch Diameter 8mm

Also available with

20cm usable length large bore section - Cat Nos. 732022/8 to 732034/8

10mm diameter perfusion side branch - Cat Nos. 734020/10 to 734034/10 and 732022/10 to 732034/10

See back for references.

# Extra Length Ante-Flo with Offset Branch

## Aortic Arch Repair

Standard Ante-Flo applications and left subclavian artery repair



Bore size mm	Cat No.
22	735022/8S
24	735024/8S
26	735026/8S
28	735028/8S
30	735030/8S
32	735032/8S

Perfusion side branch diameter 8mm

Body and perfusion side branch usable lengths 50cm and 15cm respectively

See back for references.

# Pre-curved Ante-Flo

## Aortic Arch Applications

Additional features and benefits to that of the standard Ante-Flo

- Unique pre-curved design
- Closely matches aortic arch anatomy
- Potential for reduced kinking



Bore size mm	Cat No.
22	735022ST/8A
24	735024ST/8A
26	735026ST/8A
28	735028ST/8A
30	735030ST/8A
32	735032ST/8A
34	735034ST/8A

Perfusion side branch diameter 8mm

Body and perfusion side branch usable lengths 50cm and 15cm respectively

See back for references.

# Pre-curved Graft

## Aortic Arch Repair

- Unique pre-curved design
- Closely matches aortic arch anatomy
- Potential for reduced kinking



Bore size mm	Cat No.
22	735022ST
24	735024ST
26	735026ST
28	735028ST
30	735030ST
32	735032ST
34	735034ST

Product usable length 50cm

See back for references.

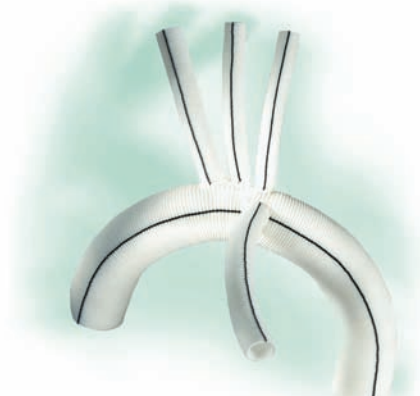
# Plexus

## Aortic Arch and Associated Major Artery Replacement

- 3 or 4 branch designs
- Antegrade flow made easy by the perfusion side branch may offer
  - Reduced incidence of temporary neurological deficits<sup>2</sup>
  - Preventive effect against embolic stroke<sup>3</sup>
  - Potential for reduced operating time<sup>4</sup>
- Convenience and graft integrity maintained



**3 Branch**



**4 Branch**

Bore size mm	Cat No.
20	73201088
22	73221088
24	73241088
26	73261088
28	73281088
30	73301088
32	73321088
34	73341088

Bore size mm	Cat No.
20	73201088/8
22	73221088/8
24	73241088/8
26	73261088/8
28	73281088/8
30	73301088/8
32	73321088/8
34	73341088/8

Body and branch usable lengths 40cm and 15cm respectively  
Arch branch diameters 10 x 8 x 8mm. Side branch diameter 8mm

Also available with a 10mm diameter perfusion side branch - Cat Nos. 73201088/10 to 73341088/10  
See back for references.

# Siena™ Collared Grafts with Radiopaque Markers

## Aortic Arch Applications

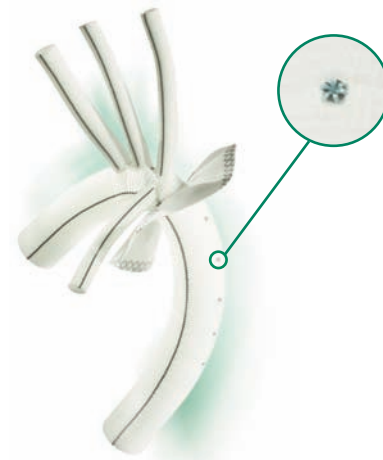
- Primarily indicated for first stage elephant trunk procedures<sup>5</sup>
- The collar compensates for diameter mismatch between distal aorta and graft,
  - Reducing tension on the distal anastomosis<sup>5</sup>
  - Potentially reducing the risk of aneurysm rupture before second stage repair<sup>5</sup>
- Side branch permits antegrade perfusion<sup>1,2</sup>

**Siena™ Ante-Flo**



Bore Size mm	Graft Body		Cat No.
	Usable Length cm		
20	50		735020/8RM
22	50		735022/8RM
24	50		735024/8RM
26	50		735026/8RM
28	50		735028/8RM
30	50		735030/8RM
32	50		735032/8RM
34	50		735034/8RM

**Siena™ 4 Branch Plexus**



Bore Size mm	Graft Body		Cat No.
	Usable Length cm		
20	50		73201088/8RM
22	50		73221088/8RM
24	50		73241088/8RM
26	50		73261088/8RM
28	50		73281088/8RM
30	50		73301088/8RM
32	50		73321088/8RM
34	50		73341088/8RM

- Perfusion side branch offset at 30° in a horizontal plane to the body of the graft - bore size 8mm - length 15cm.
- Also available with a 10mm perfusion branch - Catalogue Numbers 735020/10RM - 735034/10RM

- Side branches - bore sizes 10 x 8 x 8mm - length 15cm
- Perfusion side branch offset at 30° in a horizontal plane to the body of the graft - bore size 8mm - length 15cm
- Also available with a 10mm perfusion side branch - Catalogue Numbers 73201088/10RM - 73341088/10RM

### For all designs:

- Overall length 50cm.
- Graft proximal end to collar 20cm.
- Collar to graft distal end 30cm.
- Relaxed distance between markers 2cm.

Siena™ Collared Grafts are made from: **Gelweave™** - main body and side branches, **Gelseal™** - collar. See back for references.

# Valsalva™

## Proximal Thoracic Aorta Replacement

- Unique aortic graft design for valve sparing or Bentall procedures
- Closely matches aortic root anatomy<sup>6</sup>
- Mimics natural response of the sinuses of Valsalva<sup>7</sup>
- Potential for
  - Increased valve leaflet longevity<sup>8</sup>
  - Reduced tension on the coronary arteries



Bore size mm	Maximum Skirt Diameter mm	Body Length cm	Skirt Length mm	Collar Length mm	Cat No.
24	32	15	24	10	730024ADP
26	34	15	26	10	730026ADP
28	36	15	28	10	730028ADP
30	38	15	30	10	730030ADP
32	42	15	32	10	730032ADP
34	44	15	34	10	730034ADP

# Gelweave™

## Trifurcate Arch Graft

### Aortic Arch Applications

- Shortens hypothermic circulatory arrest times<sup>9</sup>
- Minimizes cerebral ischemia<sup>10</sup>
- No touch technique - reduces the risk of embolization<sup>10</sup>
- Minimizes adverse outcomes<sup>9</sup>
- Complements first stage elephant trunk repair<sup>9</sup>



Bore Size (mm)		Cat No.
Body	Branches	
12	8	732012/8X2
12	10	732012/10X2
14	8	732014/8X2
14	10	732014/10X2

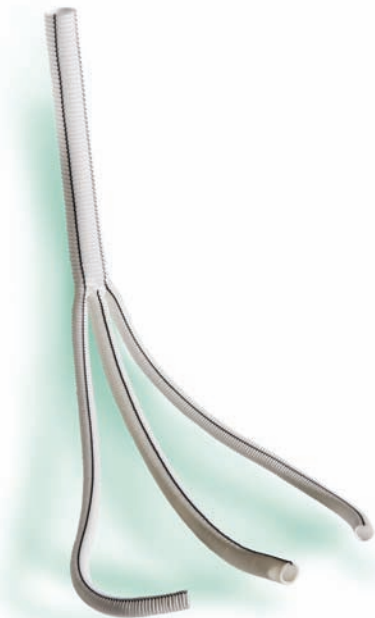
Graft body usable lengths 20cm  
Branch usable lengths 10cm

See back for references.

# Trifurcate

## Thoracoabdominal Aortic Reconstruction

- Sequential visceral and renal artery replacement<sup>12</sup>
- Permits short visceral, renal and spinal ischemic times<sup>12</sup>
- Offers low rates of end organ ischemic damage and paraplegia<sup>12</sup>



Cat No	Bore Size (mm)			Usable Length (cm)
	Body	Central Branch	Lateral Branches	
731206/7	12	7	6	45
731407/7	14	7	7	45
731608/7	16	7	8	45

Graft body usable lengths 15cm  
Branch usable lengths 30cm

See back for references.

## References

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