

**Medtronic**

# Getting people back to fuller lives

Peripheral Vascular Health  
Product Catalog



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Peripheral Vascular Health  
is dedicated to the treatment  
of peripheral arterial and  
venous diseases.

Our goal is to help physicians save  
limbs, reduce pain, and treat disease  
– so patients can get back to  
enjoying what they love.

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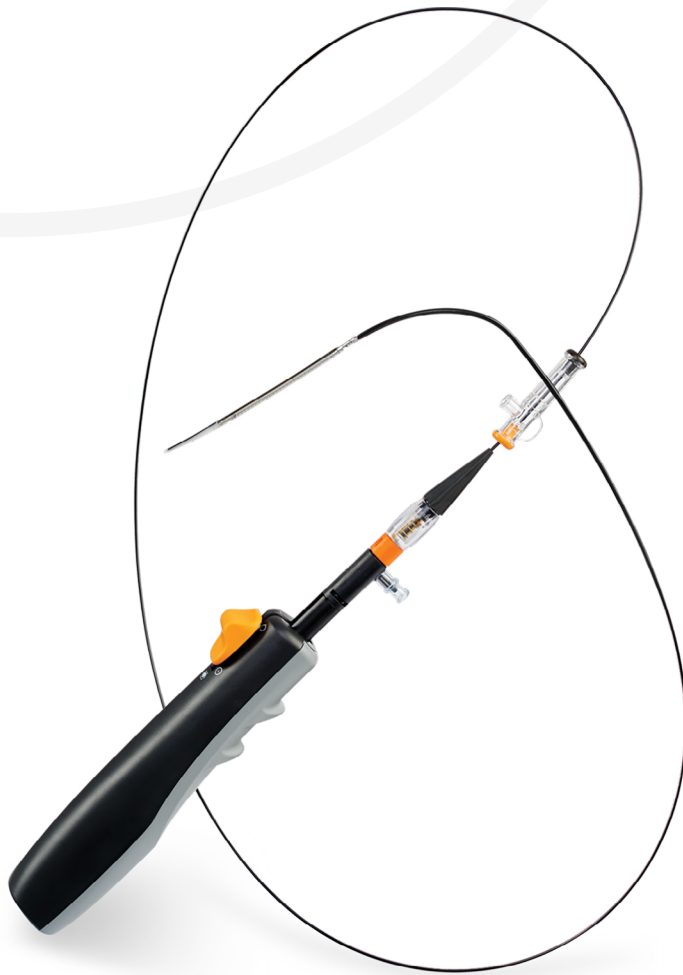
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# Directional Atherectomy Systems



HawkOne™  
Directional Atherectomy  
System

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## Directional Atherectomy System

The versatile HawkOne device – the latest addition to the Medtronic directional atherectomy portfolio – restores blood flow in patients with peripheral arterial disease (PAD) by removing plaque from calcified arteries. The HawkOne device is a comprehensive system that treats all plaque morphologies, from soft to severely calcified, above and below the knee, and offers physicians the flexibility to create a channel or maximize luminal gain.

| Model name                | Device identifier | Vessel diameter (mm) | Sheath compatibility (F) | Crossing profile (mm) | Working length <sup>†</sup> (cm) | Effective length <sup>‡</sup> (cm) | Tip length (cm) | Max. cut length (mm) | Packing device |
|---------------------------|-------------------|----------------------|--------------------------|-----------------------|----------------------------------|------------------------------------|-----------------|----------------------|----------------|
| HawkOne LS   Standard Tip | H1-LS-INT         | 3.5 to 7.0           | 7                        | 2.6                   | 114                              | 107                                | 6.6             | 50                   | ■              |
| HawkOne LX   Extended Tip | H1-LX-INT         | 3.5 to 7.0           | 7                        | 2.6                   | 114                              | 104                                | 9.6             | 75                   | ■              |
| HawkOne M   Standard Tip  | H1-M-INT          | 3.0 to 7.0           | 6                        | 2.2                   | 135                              | 129                                | 5.9             | 40                   | ■              |
| HawkOne S   Standard Tip  | H1-S-INT          | 2.0 to 4.0           | 6                        | 2.2                   | 151                              | 145                                | 5.9             | 40                   | ■              |

Max guidewire is 0.014" for all HawkOne devices.

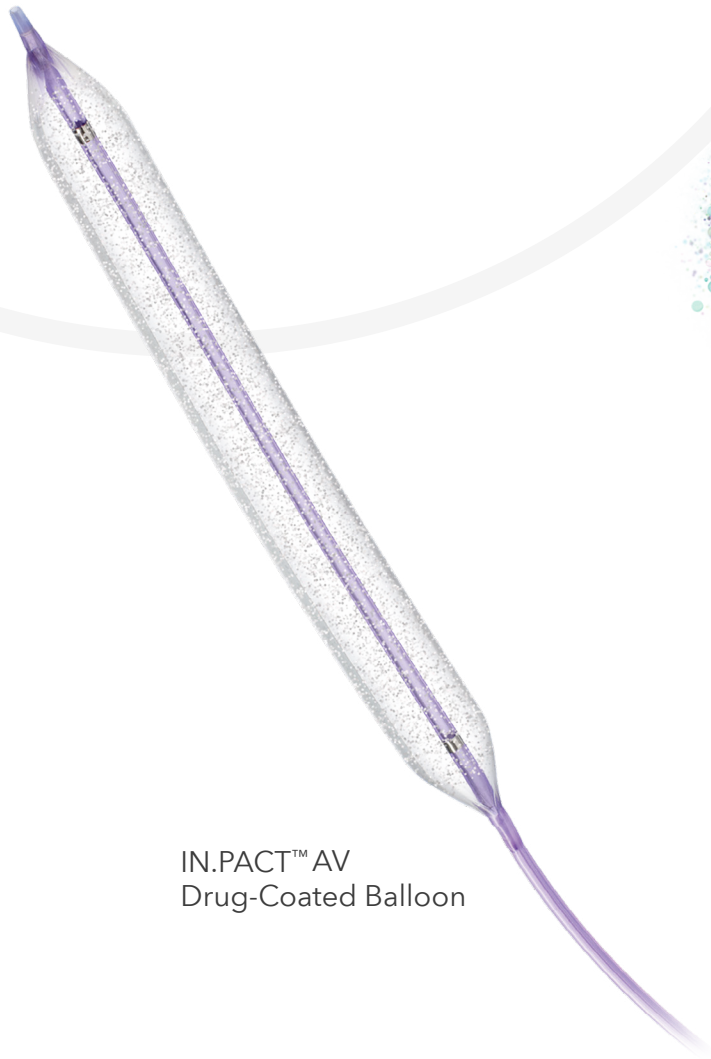
The cutter driver (catalog number H1-14550) is a battery-driven, internally powered device, designed to power the HawkOne™ directional atherectomy catheter

<sup>†</sup>Working length – distal end of preloaded flush tool, in the proximal position, to the distal end of tip.

<sup>‡</sup>Effective length – distal end of preloaded flush tool, in the proximal position, to the proximal end of cutter window.



# Drug-Coated Balloons



IN.PACT™ AV  
Drug-Coated Balloon



IN.PACT™ Admiral™  
Drug-Coated Balloon



IN.PACT™ 018  
Drug-Coated Balloon

# IN.PACT™ Admiral™

## Drug-Coated Balloon



The IN.PACT Admiral drug-coated balloon (DCB) is a clinically proven, primary endovascular therapy that treats femoropopliteal disease, reduces interventions, and preserves future treatment options.<sup>1</sup>

### Technical specifications

|                            |  |                          |                                    |
|----------------------------|--|--------------------------|------------------------------------|
| Paclitaxel drug dose       | 3.5 µg/mm <sup>2</sup>                           | Catheter design          | Over the wire (OTW)                |
| Excipient                  | Urea   | Catheter lengths         | 80, 130 cm                         |
| Balloon diameters          | 4.0–7.0 mm                                       | Guidewire compatibility  | 0.035"                             |
| Balloon lengths            | 40, 60, 80, 120, 150 mm†                         | Nominal balloon pressure | 8 atm: 40, 60, 80, 120, and 150 mm |
| Balloon fold configuration | 4.0 mm: 3 folds<br>5.0, 6.0, and 7.0 mm: 6 folds |                          |                                    |

†120 and 150 mm lengths are not offered on the 7.0 mm diameter balloon.

<sup>1</sup> Laird JA, Schneider PA, Jaff MR, et al. Long-Term Clinical Effectiveness of a Drug-Coated Balloon for the Treatment of Femoropopliteal Lesions. *Circ Cardiovasc Interv.* June 2019;12(6):e007702.

| Device identifier<br>usable length<br>80 cm | Device identifier<br>usable length<br>130 cm | Balloon<br>diameter (mm) | Balloon<br>length (mm) | Recommended<br>introducer<br>sheath (F) | Nominal<br>pressure (atm) | RBP<br>(atm) |
|---|--|--------------------------|------------------------|---|---------------------------|--------------|
| ADM 040 040 08P                             | ADM 040 040 13P                              | 4.0                      | 40                     | 5                                       | 8                         | 14           |
| ADM 040 060 08P                             | ADM 040 060 13P                              | 4.0                      | 60                     | 5                                       | 8                         | 14           |
| ADM 040 080 08P                             | ADM 040 080 13P                              | 4.0                      | 80                     | 5                                       | 8                         | 14           |
| ADM 040 120 08P                             | ADM 040 120 13P                              | 4.0                      | 120                    | 5                                       | 8                         | 14           |
| ADM 040 150 08P                             | ADM 040 150 13P                              | 4.0                      | 150                    | 5                                       | 8                         | 14           |
| ADM 050 040 08P                             | ADM 050 040 13P                              | 5.0                      | 40                     | 6                                       | 8                         | 14           |
| ADM 050 060 08P                             | ADM 050 060 13P                              | 5.0                      | 60                     | 6                                       | 8                         | 14           |
| ADM 050 080 08P                             | ADM 050 080 13P                              | 5.0                      | 80                     | 6                                       | 8                         | 14           |
| ADM 050 120 08P                             | ADM 050 120 13P                              | 5.0                      | 120                    | 6                                       | 8                         | 14           |
| ADM 050 150 08P                             | ADM 050 150 13P                              | 5.0                      | 150                    | 6                                       | 8                         | 14           |
| ADM 060 040 08P                             | ADM 060 040 13P                              | 6.0                      | 40                     | 6                                       | 8                         | 14           |
| ADM 060 060 08P                             | ADM 060 060 13P                              | 6.0                      | 60                     | 6                                       | 8                         | 14           |
| ADM 060 080 08P                             | ADM 060 080 13P                              | 6.0                      | 80                     | 6                                       | 8                         | 14           |
| ADM 060 120 08P                             | ADM 060 120 13P                              | 6.0                      | 120                    | 6                                       | 8                         | 14           |
| ADM 060 150 08P                             | ADM 060 150 13P                              | 6.0                      | 150                    | 6                                       | 8                         | 14           |
| ADM 070 040 08P                             | ADM 070 040 13P                              | 7.0                      | 40                     | 7                                       | 8                         | 14           |
| ADM 070 060 08P                             | ADM 070 060 13P                              | 7.0                      | 60                     | 7                                       | 8                         | 14           |
| ADM 070 080 08P                             | ADM 070 080 13P                              | 7.0                      | 80                     | 7                                       | 8                         | 14           |

Risks of the IN.PACT Admiral DCB may include access site pain, hemorrhage, local infection at access site, local or distal embolic events, perforation or rupture of the artery, amputation/loss of limb, and death.

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# IN.PACT™ 018

## Drug-Coated Balloon



The IN.PACT 018 drug-coated balloon (DCB) is a primary endovascular therapy for the treatment of femoropopliteal disease. It features a low-profile design engineered to cross tight lesions and allows the option to treat via femoral or radial access with 130 cm and 200 cm catheter lengths.

### Technical specifications

|                            |  |                          |                     |
|----------------------------|--|--------------------------|---------------------|
| Paclitaxel drug dose       | 3.5 µg/mm <sup>2</sup>                           | Catheter design          | Over the wire (OTW) |
| Excipient                  | Urea   | Catheter lengths         | 130, 200 cm         |
| Balloon diameters          | 4.0–7.0 mm                                       | Guidewire compatibility  | 0.018"              |
| Balloon lengths            | 40, 60, 80, 100, 120, 150 mm <sup>†</sup>        | Nominal balloon pressure | 8 atm               |
| Balloon fold configuration | 4.0 mm: 3 folds<br>5.0, 6.0, and 7.0 mm: 6 folds |                          |                     |

<sup>†</sup>100, 120 and 150 mm lengths are not offered on the 7.0 mm diameter balloon.

| Ref. number usable length 130 cm | Balloon diameter (mm) | Balloon length (mm) | Recommended introducer sheath (F) | Nominal pressure (atm) | RBP (atm) |
|----------------------------------|-----------------------|---------------------|-----------------------------------|------------------------|-----------|
| IPU04004013P                     | 4.0                   | 40                  | 5                                 | 8                      | 10        |
| IPU04006013P                     | 4.0                   | 60                  | 5                                 | 8                      | 10        |
| IPU04008013P                     | 4.0                   | 80                  | 5                                 | 8                      | 10        |
| IPU04010013P                     | 4.0                   | 100                 | 5                                 | 8                      | 10        |
| IPU04012013P                     | 4.0                   | 120                 | 5                                 | 8                      | 10        |
| IPU04015013P                     | 4.0                   | 150                 | 5                                 | 8                      | 10        |
| IPU05004013P                     | 5.0                   | 40                  | 5                                 | 8                      | 10        |
| IPU05006013P                     | 5.0                   | 60                  | 5                                 | 8                      | 10        |
| IPU05008013P                     | 5.0                   | 80                  | 5                                 | 8                      | 10        |
| IPU05010013P                     | 5.0                   | 100                 | 5                                 | 8                      | 10        |
| IPU05012013P                     | 5.0                   | 120                 | 5                                 | 8                      | 10        |
| IPU05015013P                     | 5.0                   | 150                 | 5                                 | 8                      | 10        |
| IPU06004013P                     | 6.0                   | 40                  | 5                                 | 8                      | 10        |
| IPU06006013P                     | 6.0                   | 60                  | 5                                 | 8                      | 10        |
| IPU06008013P                     | 6.0                   | 80                  | 5                                 | 8                      | 10        |
| IPU06010013P                     | 6.0                   | 100                 | 5                                 | 8                      | 10        |
| IPU06012013P                     | 6.0                   | 120                 | 5                                 | 8                      | 10        |
| IPU06015013P                     | 6.0                   | 150                 | 5                                 | 8                      | 10        |
| IPU07004013P                     | 7.0                   | 40                  | 6                                 | 8                      | 10        |
| IPU07006013P                     | 7.0                   | 60                  | 6                                 | 8                      | 10        |
| IPU07008013P                     | 7.0                   | 80                  | 6                                 | 8                      | 10        |

Risks of IN.PACT 018 DCB may include, but are not limited to, abrupt vessel closure, vessel spasm, perforation or rupture of the artery, dissection, pseudoaneurysm, hematoma, thrombosis, and stroke.

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# IN.PACT™ AV

## Drug-Coated Balloon



The IN.PACT AV drug-coated balloon (DCB) is a clinically demonstrated endovascular therapy for AV fistula maintenance for patients with end-stage renal disease (ESRD). It delivers an antiproliferative drug (paclitaxel) to the vessel to inhibit AV fistula stenosis. The IN.PACT AV DCB may enable dramatically fewer AV fistula reinterventions, which could keep patients out of the hospital longer.<sup>1</sup> It can make an impact clinically, financially,<sup>2</sup> and emotionally.

<sup>1</sup> Lookstein RA, Haruguchi H, Ouriel K, et al. Drug-Coated Balloons for Dysfunctional Dialysis Arteriovenous Fistulas. *N Engl J Med.* August 20, 2020;383(8):733-742.

<sup>2</sup> Thamer M, Lee TC, Wasse H, et al. Medicare Costs Associated With Arteriovenous Fistulas Among US Hemodialysis Patients. *Am J Kidney Dis.* July 2018;72(1):10-18.

| Device identifier<br>usable length<br>80 cm | Device identifier<br>usable length<br>130 cm | Balloon<br>diameter<br>(mm) | Balloon<br>length<br>(mm) | Recommended<br>introducer<br>sheath (F) | Nominal<br>pressure<br>(atm) | RBP<br>(atm) |
|---|--|-----------------------------|---------------------------|---|------------------------------|--------------|
| IAV04004008P                                | -  | 4.0                         | 40                        | 5                                       | 8                            | 14           |
| IAV04006008P                                | -  | 4.0                         | 60                        | 5                                       | 8                            | 14           |
| IAV04008008P                                | -  | 4.0                         | 80                        | 5                                       | 8                            | 14           |
| IAV04012008P                                | -  | 4.0                         | 120                       | 5                                       | 8                            | 14           |
| IAV05004008P                                | -  | 5.0                         | 40                        | 6                                       | 8                            | 14           |
| IAV05006008P                                | -  | 5.0                         | 60                        | 6                                       | 8                            | 14           |
| IAV05008008P                                | -  | 5.0                         | 80                        | 6                                       | 8                            | 14           |
| IAV05012008P                                | -  | 5.0                         | 120                       | 6                                       | 8                            | 14           |
| IAV06004008P                                | -  | 6.0                         | 40                        | 6                                       | 8                            | 14           |
| IAV06006008P                                | -  | 6.0                         | 60                        | 6                                       | 8                            | 14           |
| IAV06008008P                                | -  | 6.0                         | 80                        | 6                                       | 8                            | 14           |
| IAV06012008P                                | -  | 6.0                         | 120                       | 6                                       | 8                            | 14           |
| IAV07004008P                                | -  | 7.0                         | 40                        | 7                                       | 8                            | 14           |
| IAV07006008P                                | -  | 7.0                         | 60                        | 7                                       | 8                            | 14           |
| IAV07008008P                                | -  | 7.0                         | 80                        | 7                                       | 8                            | 14           |
| IAV08004008P                                | IAV08004013P                                 | 8.0                         | 40                        | 7                                       | 8                            | 10           |
| IAV08006008P                                | IAV08006013P                                 | 8.0                         | 60                        | 7                                       | 8                            | 10           |
| IAV08008008P                                | IAV08008013P                                 | 8.0                         | 80                        | 7                                       | 8                            | 10           |
| IAV09004008P                                | IAV09004013P                                 | 9.0                         | 40                        | 7                                       | 8                            | 10           |
| IAV09006008P                                | IAV09006013P                                 | 9.0                         | 60                        | 7                                       | 8                            | 10           |
| IAV09008008P                                | IAV09008013P                                 | 9.0                         | 80                        | 7                                       | 8                            | 10           |
| IAV10004008P                                | IAV10004013P                                 | 10.0                        | 40                        | 7                                       | 6                            | 9            |
| IAV12004008P                                | IAV12004013P                                 | 12.0                        | 40                        | 9                                       | 6                            | 9            |

Risks of the IN.PACT AV DCB may include pain, hemorrhage, arterial or venous aneurysm/thrombosis, dissection, infection, perforation or rupture, loss of permanent access, and death.

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# Embolitic Protection



SpiderFX™  
Embolitic Protection Device

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# SpiderFX™

## Embolic Protection Device



The SpiderFX device is used to capture and remove debris that becomes dislodged during an interventional procedure. The SpiderFX device can be delivered over any 0.014" or 0.018" guidewire, or through any 0.035" guidewire-compatible catheter.† It is indicated for use in carotid arteries, coronary saphenous vein bypass grafts, and lower extremity procedures.

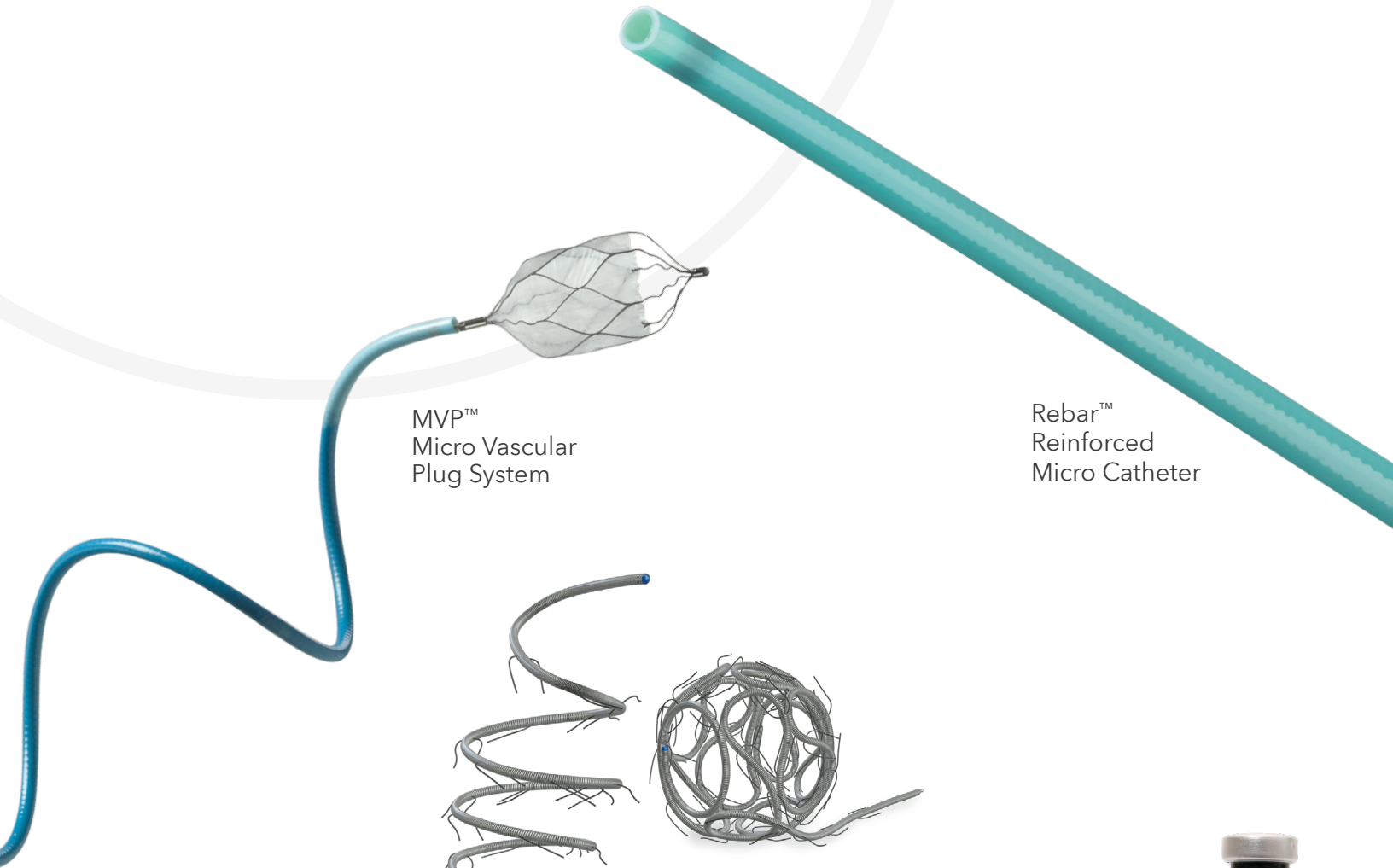
†Lower extremity procedures.

| Device identifier | Filter size (mm) | Target vessel size (mm)                                   | Capture wire            |                       | Delivery end         | Recovery end | Guide catheter/sheath |
|-------------------|------------------|---|-------------------------|-----------------------|----------------------|--------------|-----------------------|
|                   |                  |   | Wire length OTW/RX (cm) | Wire diameter (in/mm) | Crossing profile (F) | Diameter (F) | Minimum ID (in)       |
| SPD2-C-030-320    | 3.0              | 3.0 SVG & Carotid   | 320/190                 | 0.014/0.36            | 3.2                  | 4.2          | 0.066                 |
| SPD2-C-040-320    | 4.0              | 3.1-4.0 SVG & Carotid                                     | 320/190                 | 0.014/0.36            | 3.2                  | 4.2          | 0.066                 |
| SPD2-C-050-320    | 5.0              | 4.1-5.0 SVG & Carotid<br>3.0-4.0 Lower Extremity          | 320/190                 | 0.014/0.36            | 3.2                  | 4.2          | 0.066                 |
| SPD2-C-060-320    | 6.0              | 4.5-6.0 SVG & Carotid<br>3.5-5.0 Lower Extremity          | 320/190                 | 0.014/0.36            | 3.2                  | 4.2          | 0.066                 |
| SPD2-C-070-320    | 7.0              | 5.5-6.0 SVG<br>5.5-7.0 Carotid<br>4.5-6.0 Lower Extremity | 320/190                 | 0.014/0.36            | 3.2                  | 4.2          | 0.066                 |

The 320 cm wire lengths are scored to allow for snapping down to a 190 cm wire length if desired.

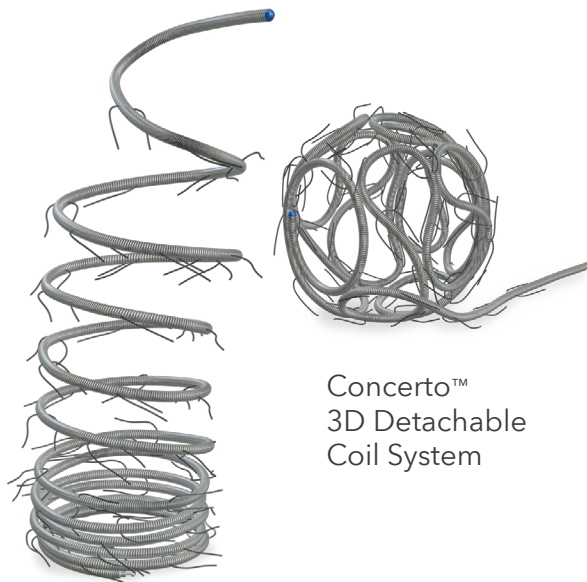


# Embolization



MVP™  
Micro Vascular  
Plug System

Rebar™  
Reinforced  
Micro Catheter



Concerto™  
3D Detachable  
Coil System

Concerto™  
Helix Detachable  
Coil System



Onyx™  
Liquid Embolic  
System

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# Concerto™

## Detachable Coil System



Treat more patients, treat them safely, and treat them faster with Concerto coils. The combination of complex and helical coils enables you to treat multiple anatomies while the coils' softness helps smoothly reach distal and challenging vessels.<sup>1</sup> The detachment system has a 99.7% success rate,<sup>1</sup> and fibers reduce occlusion time, enhancing the mechanical action of bare coils.<sup>2</sup>

<sup>1</sup> Test data on file at Medtronic in reports TR08-134, and TR07-084. Bench test results may not be indicative of clinical performance.

<sup>2</sup> Girdhar G, Read M, Sohn J, et al. In-vitro thrombogenicity assessment of polymer filament modified and native platinum embolic coils. *J Neurol Sci.* April 15, 2014;339(1-2):97-101.

| Device identifier | Description            | Diameter (mm) | Length (cm) | Shape | Min. micro catheter compatibility (in) |
|-------------------|------------------------|---------------|-------------|-------|--|
| NV-2-4-Helix      | Concerto nylon helical | 2             | 4           | Helix | 0.0165                                 |
| NV-2-6-Helix      | Concerto nylon helical | 2             | 6           | Helix | 0.0165                                 |
| NV-2-8-Helix      | Concerto nylon helical | 2             | 8           | Helix | 0.0165                                 |
| NV-3-4-Helix      | Concerto nylon helical | 3             | 4           | Helix | 0.0165                                 |
| NV-3-8-Helix      | Concerto nylon helical | 3             | 8           | Helix | 0.0165                                 |
| NV-4-8-Helix      | Concerto nylon helical | 4             | 8           | Helix | 0.0165                                 |
| NV-4-10-Helix     | Concerto nylon helical | 4             | 10          | Helix | 0.0165                                 |
| NV-5-15-Helix     | Concerto nylon helical | 5             | 15          | Helix | 0.021                                  |
| NV-5-20-Helix     | Concerto nylon helical | 5             | 20          | Helix | 0.021                                  |
| NV-6-20-Helix     | Concerto nylon helical | 6             | 20          | Helix | 0.021                                  |
| NV-7-30-Helix     | Concerto nylon helical | 7             | 30          | Helix | 0.021                                  |
| NV-8-30-Helix     | Concerto nylon helical | 8             | 30          | Helix | 0.021                                  |
| NV-9-30-Helix     | Concerto nylon helical | 9             | 30          | Helix | 0.021                                  |
| NV-10-30-Helix    | Concerto nylon helical | 10            | 30          | Helix | 0.021                                  |
| PV-12-30-Helix    | Concerto PGLA helical  | 12            | 30          | Helix | 0.021                                  |
| PV-14-30-Helix    | Concerto PGLA helical  | 14            | 30          | Helix | 0.021                                  |
| PV-16-40-Helix    | Concerto PGLA helical  | 16            | 40          | Helix | 0.021                                  |
| PV-18-40-Helix    | Concerto PGLA helical  | 18            | 40          | Helix | 0.021                                  |
| PV-20-50-Helix    | Concerto PGLA helical  | 20            | 50          | Helix | 0.021                                  |
| PV-2-2-3D         | Concerto PGLA 3D       | 2             | 2           | 3D    | 0.0165                                 |
| PV-2-4-3D         | Concerto PGLA 3D       | 2             | 4           | 3D    | 0.0165                                 |
| PV-2-6-3D         | Concerto PGLA 3D       | 2             | 6           | 3D    | 0.0165                                 |
| PV-3-4-3D         | Concerto PGLA 3D       | 3             | 4           | 3D    | 0.0165                                 |
| PV-3-6-3D         | Concerto PGLA 3D       | 3             | 6           | 3D    | 0.0165                                 |
| PV-3-8-3D         | Concerto PGLA 3D       | 3             | 8           | 3D    | 0.0165                                 |
| PV-4-8-3D         | Concerto PGLA 3D       | 4             | 8           | 3D    | 0.0165                                 |
| PV-4-10-3D        | Concerto PGLA 3D       | 4             | 10          | 3D    | 0.0165                                 |
| PV-4-12-3D        | Concerto PGLA 3D       | 4             | 12          | 3D    | 0.0165                                 |
| PV-5-15-3D        | Concerto PGLA 3D       | 5             | 15          | 3D    | 0.0165                                 |
| PV-6-20-3D        | Concerto PGLA 3D       | 6             | 20          | 3D    | 0.0165                                 |
| PV-7-30-3D        | Concerto PGLA 3D       | 7             | 30          | 3D    | 0.0165                                 |
| PV-8-30-3D        | Concerto PGLA 3D       | 8             | 30          | 3D    | 0.0165                                 |
| PV-9-30-3D        | Concerto PGLA 3D       | 9             | 30          | 3D    | 0.0165                                 |
| PV-10-30-3D       | Concerto PGLA 3D       | 10            | 30          | 3D    | 0.0165                                 |
| PV-12-40-3D       | Concerto PGLA 3D       | 12            | 40          | 3D    | 0.021                                  |
| PV-14-40-3D       | Concerto PGLA 3D       | 14            | 40          | 3D    | 0.021                                  |
| PV-16-40-3D       | Concerto PGLA 3D       | 16            | 40          | 3D    | 0.021                                  |
| PV-18-40-3D       | Concerto PGLA 3D       | 18            | 40          | 3D    | 0.021                                  |

Risks of the Concerto system may include puncture site hematoma, thromboembolic episodes, vessel perforation, neurological deficits, vasospasms, vascular thrombosis, hemorrhage, and ischemia.

Some products/indications/therapy areas may not be licensed in accordance with Canadian Law. Please contact your local representative for further information. 14



## Micro Vascular Plug System

The MVP micro vascular plug system is designed to occlude vessels in the peripheral vasculature quickly and predictably. Micro catheter deliverability enables super-selective treatment of distal vessels. Further, the device is fully resheathable to facilitate accurate placement.

| Device identifier | Description | Recommended vessel size (mm) | Outer diameter unconstrained (mm) | Length unconstrained (mm) | Delivery wire length (cm) | Min. recommended microcatheter ID (in) | Max. recommended length of microcatheter/delivery catheter (cm) |
|-------------------|-------------|------------------------------|-----------------------------------|---------------------------|---------------------------|--|---|
| MVP-3Q            | MVP-3Q      | 1.5-3                        | 5.3                               | 12                        | 180                       | 0.021                                  | 153   |
| MVP-5Q            | MVP-5Q      | 3-5                          | 6.5                               | 12                        | 180                       | 0.027                                  | 153   |
| MVP-7Q            | MVP-7Q      | 5-7                          | 9.2                               | 16                        | 165                       | 0.041 (4 Fr)                           | 120   |
| MVP-9Q            | MVP-9Q      | 7-9                          | 13                                | 18                        | 165                       | 0.043 (5 Fr)                           | 120   |

## Rebar™

### Reinforced Micro Catheter

The Rebar micro catheter is an end-hole, single-lumen, stainless steel reinforced catheter designed to be introduced over a steerable guidewire into the vasculature. It features a lubricious hydrophilic outer coating and steam-shapeable tip.

| Device identifier | Product  | Proximal OD/distal OD (F) | Distal ID (in) | Total length (cm) | Usable length (cm) | Maximum guidewire (in) |
|-------------------|----------|---------------------------|----------------|-------------------|--------------------|------------------------|
| 105-5081-130      | Rebar-18 | 2.7/2.4                   | 0.021          | 137               | 130                | 0.018                  |
| 105-5083-153      | Rebar-18 | 2.7/2.4                   | 0.021          | 160               | 153                | 0.018                  |
| 105-5082-145      | Rebar-27 | 2.8/2.8                   | 0.027          | 150               | 145                | 0.021                  |



The Onyx liquid embolic system (LES) is an ethylene vinyl alcohol (EVOH) copolymer that provides complete filling and distal penetration of peripheral and neurovascular lesions.<sup>1</sup> Its non-adhesive properties permit more distal nidus embolization without significant risk of catheter entrapment, while higher viscosities allow for controlled deployment.<sup>2</sup>

<sup>1</sup>Urbano J, Manuel Cabrera J, Franco A, Alonso-Burgos A. Selective arterial embolization with ethylene-vinyl alcohol copolymer for control of massive lower gastrointestinal bleeding: feasibility and initial experience. *J Vasc Interv Radiol.* June 2014;25(6):839-846.

<sup>2</sup>Ricardo Yamada, Andre Uflacker. Austin Bourgeols. Joshua D. Adams. Marcelo Guimaraes. *Embolization Therapy: Principles and Clinical Applications.* Philadelphia, PA: Wolters Kluwer; 2015:582.

| Device identifier | Onyx formulation               |
|-------------------|--------------------------------|
| 105-7200-060      | Onyx 18 peripheral kit, 1.5 mL |
| 105-7200-080      | Onyx 34 peripheral kit, 1.5 mL |
| 105-7315-080      | Onyx 34L kit, 1.5 mL           |
| 105-7360-080      | Onyx 34L kit, 6 mL             |

| Device identifier | Onyx LES accessory                                   |
|-------------------|--|
| 103-1205-001      | Vortex Genie 2 120v/60Hz with 1.5 mL vial attachment |
| 103-1205-002      | Vortex Genie 2 240v/50Hz with 1.5 mL vial attachment |
| 103-1205-100      | Mixer attachment for 6 mL and 1.5 mL vials           |
| 103-1207          | Syringe catheter interface adapter (20 units/box)    |
| 103-1203          | 1 mL Luer-Lock injector syringe (10 units/box)       |

| Product kits   | Kits include   |
|----------------|--|
| 18 and 34 LES  | <ul style="list-style-type: none"> <li>• 1x1.5 mL vial of Onyx LES</li> <li>• 1x1.5 mL vial of DMSO</li> <li>• 1x1 mL DMSO syringe</li> <li>• 2x1 mL Onyx LES syringe</li> </ul> |
| 34L LES 1.5 mL | <ul style="list-style-type: none"> <li>• 1x1.5 mL vial of Onyx LES</li> <li>• 1x1.5 mL vial of DMSO</li> <li>• 1x1 mL DMSO syringe</li> <li>• 2x1 mL Onyx LES syringe</li> </ul> |
| 34L LES 6 mL   | <ul style="list-style-type: none"> <li>• 1x6 mL vial of Onyx LES</li> <li>• 1x1.5 mL vial of DMSO</li> <li>• 1x1 mL DMSO syringe</li> <li>• 7x1 mL Onyx LES syringe</li> </ul>   |





# Superficial Venous Products



VenaSeal™  
Closure System



ClosureFast™  
Radiofrequency Ablation System

Some products/indications/therapy areas may not be licensed in accordance with Canadian Law. Please contact your local representative for further information.



The VenaSeal closure system offers relief for patients suffering from venous reflux disease by using a specially formulated medical adhesive to permanently close the vein. With no need for heat, the VenaSeal procedure delivers a comfortable patient experience<sup>1,2</sup> and immediate and lasting vein closure with a demonstrated 94.6% closure rate at five years.<sup>1,2</sup>

<sup>1</sup> Proebstle TM. The European Multicenter Study on Cyanoacrylate Embolization of Refluxing Great Saphenous Veins without Tumescence Anesthesia and without Compression Therapy. Results presented at Charing Cross 2016; London, UK.

<sup>2</sup> Almeida JI, Javier JJ, Mackay EG, et al. Thirty-sixth-month follow-up of first-in-human use of cyanoacrylate adhesive for treatment of saphenous vein incompetence. *J Vasc Surg Venous Lymphat Disord.* September 2017;5(5):658-666.

| Description       | Specs  |
|-------------------|--|
| VenaSeal Adhesive | 5 cc of the VenaSeal adhesive (a specially formulated n-butyl-2-cyanoacrylate) is contained within a screw-capped vial.  |
| Syringe           | The 3 cc syringes are graduated Monoject™ luer lock syringes, each with a standard threaded luer lock connector.   |
| Introducer        | The introducer is 7 F with an effective length of 80 cm, with 10 mm spaced circumferential markings along its length for measuring retraction length during the VenaSeal procedure.                        |
| Guidewire         | The guidewire is a 0.035 in, 180 cm straight floppy-tip guidewire.   |
| Dispenser Tips    | The dispenser tips are each comprised of a stainless steel, 1.5 mm inner diameter, 3.8 cm length hypotube with a luer lock connector.  |
| Dispenser Gun     | The dispenser gun consists of a pistol-type ergonomic handle with an integrated barrel and trigger. Each depression of the trigger delivers a controlled 0.10 cc (range: 0.06-0.12 cc) amount of adhesive. |
| Dilator           | The dilator is 5 F with an effective length of 87 cm.  |
| Catheter          | The catheter is 5 F with an effective length of 91 cm, laser markings at 3 cm and 85 cm from the tip, and high echogenic visibility.   |

The VenaSeal Closure System kit is available in one configuration.  
Configuration Order number - Single pack VS-403

Risks of the VenaSeal system can include allergic reaction, inflammation, phlebitis, deep vein thrombosis, and/or pulmonary embolism.

Some products/indications/therapy areas may not be licensed in accordance with Canadian Law. Please contact your local representative for further information.

# ClosureFast™



## Radiofrequency Ablation (RFA) System

Deliver lasting results with gap-free thermal ablation using the ClosureFast RFA system. The segmental procedure offers proven results with positive patient outcomes and experience.<sup>1-3</sup> It is the only radiofrequency ablation system with published long-term clinical data demonstrating safety and efficacy, with a 91.9% closure rate at five years.<sup>2</sup>

- <sup>1</sup> Almeida JI, Kaufman J, Göckeritz O, et al. Radiofrequency endovenous ClosureFAST versus laser ablation for the treatment of great saphenous reflux: a multicenter, single-blinded, randomized study (RECOVERY study). *J Vasc Interv Radiol.* June 2009;20(6):752-759.
- <sup>2</sup> Proebstle TM, Alm BJ, Göckeritz O, et al. Five-year results from the prospective European multicentre cohort study on radiofrequency segmental thermal ablation for incompetent great saphenous veins. *Br J Surg.* February 2015;102(3): 212-218.
- <sup>3</sup> Rasmussen LH, Lawaetz M, Bjoern L, et al. Randomized clinical trial comparing endovenous laser ablation, radiofrequency ablation, foam sclerotherapy and surgical stripping for great saphenous varicose veins. *Br J Surg.* August 2011;98(8):1079-1087.

| Catheter model                   | CF6-8-60         | CF6-8-100        | CF7-7-60         | CF7-7-100        | CF7-3-60         |
|----------------------------------|------------------|------------------|------------------|------------------|------------------|
| Compatible Guidewire             | 0.025 in         | 0.025 in         | 0.025 in         | 0.025 in         | 0.025 in         |
| Default Target Temp. Setting     | 120 °C           | 120 °C           | 120°C            | 120°C            | 120°C            |
| Heating Element Diameter         | 2.0 mm           | 2.0 mm           | 7 F (2.3 mm)     | 7 F (2.3 mm)     | 7 F (2.3 mm)     |
| Heating Element Length           | 8 cm             | 8 cm             | 7 cm             | 7 cm             | 3 cm             |
| Heating Element Overlap          | 0.5 cm           | 0.5 cm           | 0.5 cm           | 0.5 cm           | 0.5 cm           |
| Insertable Length                | 60 cm            | 100 cm           | 60 cm            | 100 cm           | 60 cm            |
| Introducer Sheath (min. ID size) | 6F (2.0 mm)      | 6F (2.0 mm)      | 7 F (2.3 mm)     | 7 F (2.3 mm)     | 7 F (2.3 mm)     |
| Maximum Power Setting            | 40 W             | 40 W             | 40 W             | 40 W             | 18 W             |
| Software Version: RFG2           | 4.0.0 or higher  | 4.0.0 or higher  | 4.0.0 or higher  | 4.0.0 or higher  | 4.0.0 or higher  |
| Software Version: RFG3           | 1.11.0 or higher | 1.11.0 or higher | 1.11.0 or higher | 1.11.0 or higher | 1.11.0 or higher |

# ClosureRFS™

## Endovenous Radiofrequency Ablation (RFA) Stylet

The ClosureRFS stylet RFA device is indicated for the treatment of incompetent perforator veins for patients suffering from venous reflux disease.

| Device identifier | Product names     | French size  | Working length | Compatible guidewire | Max IV catheter |
|-------------------|-------------------|--------------|----------------|----------------------|-----------------|
| RFS2-6-12         | ClosureRFS stylet | 6 F (2.0 mm) | 12 cm          | 0.035 in             | 12 gauge        |

# ClosureRFG™

## Radiofrequency Generator

The ClosureRFG radiofrequency generator supplies and controls the RF energy delivered to the ClosureFast catheter and ClosureRFS stylet, providing consistent and controlled treatment of venous reflux disease.

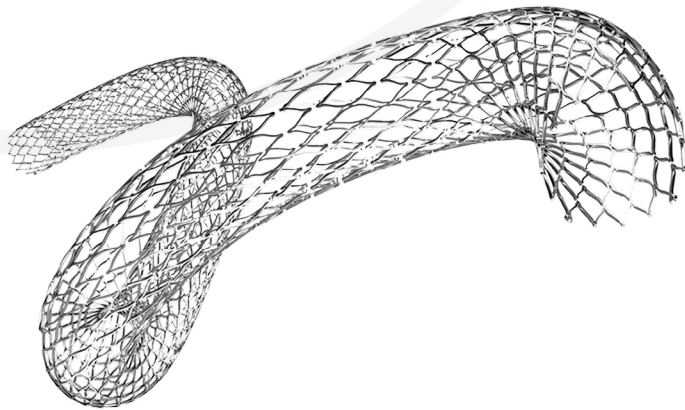
| Device identifier | Voltage              | Height            | Width           | Depth            | Weight             |
|-------------------|----------------------|-------------------|-----------------|------------------|--------------------|
| RFG3              | Universal (100-240V) | 10.5 in (26.7 cm) | 13.4 in (34 cm) | 6.8 in (17.3 cm) | 15 lb (6.8 kg) max |

Risks of the ClosureFast procedure may include hematoma, phlebitis, skin injury, nerve injury, thrombophlebitis, thrombosis, and/or pulmonary embolism.

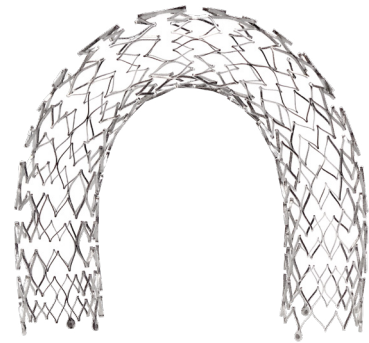
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# Stents

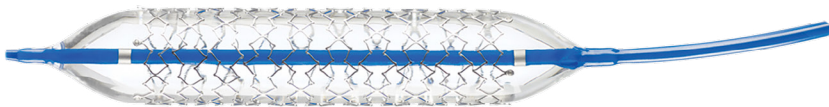


EverFlex™  
Self-expanding Peripheral  
Stent System



Abre™  
Venous Self-expanding  
Stent System

Visi-Pro™  
Balloon-expandable Peripheral  
Stent System



# EverFlex™ Self-expanding Peripheral Stent with Entrust™ Delivery System



You asked for simple deployment with reduced variability – and we delivered. When you need to stent, trust the precision, strength, and flexibility of the #1 peripheral stent†: EverFlex self-expanding peripheral stent with Entrust delivery system. The Entrust system is a one-handed stent delivery system with a low 5 F profile. The device is indicated for use in the superficial femoral artery and/or proximal popliteal arteries, and is available in lengths from 20 mm to 150 mm.

†EverFlex Self-expanding Peripheral Stent, U.S. only. DRG market share data for peripheral self-expanding bare metal stents.

| Catheter length            |                             |                             | Stent size       |                | Compatibility                       |                   |                               |
|----------------------------|-----------------------------|-----------------------------|------------------|----------------|-------------------------------------|-------------------|-------------------------------|
| Device identifier<br>80 cm | Device identifier<br>120 cm | Device identifier<br>150 cm | Diameter<br>(mm) | Length<br>(mm) | Recomm.<br>introducer<br>sheath (F) | Guidewire<br>(in) | Recomm.<br>lumen size<br>(mm) |
| EVX35-05-020-080           | EVX35-05-020-120            | EVX35-05-020-150            | 5                | 20             | 5                                   | 0.035             | 3.5-4.5                       |
| EVX35-05-040-080           | EVX35-05-040-120            | EVX35-05-040-150            | 5                | 40             | 5                                   | 0.035             | 3.5-4.5                       |
| EVX35-05-060-080           | EVX35-05-060-120            | EVX35-05-060-150            | 5                | 60             | 5                                   | 0.035             | 3.5-4.5                       |
| EVX35-05-080-080           | EVX35-05-080-120            | EVX35-05-080-150            | 5                | 80             | 5                                   | 0.035             | 3.5-4.5                       |
| EVX35-05-100-080           | EVX35-05-100-120            | EVX35-05-100-150            | 5                | 100            | 5                                   | 0.035             | 3.5-4.5                       |
| EVX35-05-120-080           | EVX35-05-120-120            | EVX35-05-120-150            | 5                | 120            | 5                                   | 0.035             | 3.5-4.5                       |
| EVX35-05-150-080           | EVX35-05-150-120            | EVX35-05-150-150            | 5                | 150            | 5                                   | 0.035             | 3.5-4.5                       |
| EVX35-06-020-080           | EVX35-06-020-120            | EVX35-06-020-150            | 6                | 20             | 5                                   | 0.035             | 4.5-5.5                       |
| EVX35-06-040-080           | EVX35-06-040-120            | EVX35-06-040-150            | 6                | 40             | 5                                   | 0.035             | 4.5-5.5                       |
| EVX35-06-060-080           | EVX35-06-060-120            | EVX35-06-060-150            | 6                | 60             | 5                                   | 0.035             | 4.5-5.5                       |
| EVX35-06-080-080           | EVX35-06-080-120            | EVX35-06-080-150            | 6                | 80             | 5                                   | 0.035             | 4.5-5.5                       |
| EVX35-06-100-080           | EVX35-06-100-120            | EVX35-06-100-150            | 6                | 100            | 5                                   | 0.035             | 4.5-5.5                       |
| EVX35-06-120-080           | EVX35-06-120-120            | EVX35-06-120-150            | 6                | 120            | 5                                   | 0.035             | 4.5-5.5                       |
| EVX35-06-150-080           | EVX35-06-150-120            | EVX35-06-150-150            | 6                | 150            | 5                                   | 0.035             | 4.5-5.5                       |
| EVX35-07-020-080           | EVX35-07-020-120            | EVX35-07-020-150            | 7                | 20             | 5                                   | 0.035             | 5.5-6.5                       |
| EVX35-07-040-080           | EVX35-07-040-120            | EVX35-07-040-150            | 7                | 40             | 5                                   | 0.035             | 5.5-6.5                       |
| EVX35-07-060-080           | EVX35-07-060-120            | EVX35-07-060-150            | 7                | 60             | 5                                   | 0.035             | 5.5-6.5                       |
| EVX35-07-080-080           | EVX35-07-080-120            | EVX35-07-080-150            | 7                | 80             | 5                                   | 0.035             | 5.5-6.5                       |
| EVX35-07-100-080           | EVX35-07-100-120            | EVX35-07-100-150            | 7                | 100            | 5                                   | 0.035             | 5.5-6.5                       |
| EVX35-07-120-080           | EVX35-07-120-120            | EVX35-07-120-150            | 7                | 120            | 5                                   | 0.035             | 5.5-6.5                       |
| EVX35-07-150-080           | EVX35-07-150-120            | EVX35-07-150-150            | 7                | 150            | 5                                   | 0.035             | 5.5-6.5                       |
| EVX35-08-020-080           | EVX35-08-020-120            | EVX35-08-020-150            | 8                | 20             | 5                                   | 0.035             | 6.5-7.5                       |
| EVX35-08-040-080           | EVX35-08-040-120            | EVX35-08-040-150            | 8                | 40             | 5                                   | 0.035             | 6.5-7.5                       |
| EVX35-08-060-080           | EVX35-08-060-120            | EVX35-08-060-150            | 8                | 60             | 5                                   | 0.035             | 6.5-7.5                       |
| EVX35-08-080-080           | EVX35-08-080-120            | EVX35-08-080-150            | 8                | 80             | 5                                   | 0.035             | 6.5-7.5                       |
| EVX35-08-100-080           | EVX35-08-100-120            | EVX35-08-100-150            | 8                | 100            | 5                                   | 0.035             | 6.5-7.5                       |
| EVX35-08-120-080           | EVX35-08-120-120            | EVX35-08-120-150            | 8                | 120            | 5                                   | 0.035             | 6.5-7.5                       |
| EVX35-08-150-080           | EVX35-08-150-120            | EVX35-08-150-150            | 8                | 150            | 5                                   | 0.035             | 6.5-7.5                       |

Each system includes one stent and delivery catheter system.

Some products/indications/therapy areas may not be licensed in accordance with Canadian Law. Please contact your local representative for further information. 21



## Self-expanding Peripheral Stent System

When you need to stent, trust the precision, strength, and flexibility of the EverFlex stent,<sup>1</sup> indicated for use in the superficial femoral and proximal popliteal arteries (SFA/PPA), common iliac, and/or external iliac arteries. The EverFlex stent is available in lengths from 20 to 200 mm (SFA/PPA) or 20–120 mm (iliac). The broad size matrix, all deliverable through a 6 F catheter, provides the most appropriate single-stent fit. Peak-to-peak connection nodes disperse force uniformly, enhancing durability, while the spiral-cell connection and three-wave peak design optimize flexibility.<sup>1</sup>

<sup>1</sup>Data on file at Medtronic in reports R-2380, RE-PV10977, R-2398, and R-3348.

| Catheter length            |                             | Stent size       |                | Compatibility                       |                |                            |
|----------------------------|-----------------------------|------------------|----------------|-------------------------------------|----------------|----------------------------|
| Device identifier<br>80 cm | Device identifier<br>120 cm | Diameter<br>(mm) | Length<br>(mm) | Recomm.<br>introducer sheath<br>(F) | Guidewire (in) | Recomm.<br>lumen size (mm) |
| PRP35-05-020-080           | PRP35-05-020-120            | 5                | 20             | 6                                   | 0.035          | 3.5-4.5                    |
| PRP35-05-030-080           | PRP35-05-030-120            | 5                | 30             | 6                                   | 0.035          | 3.5-4.5                    |
| PRP35-05-040-080           | PRP35-05-040-120            | 5                | 40             | 6                                   | 0.035          | 3.5-4.5                    |
| PRP35-05-060-080           | PRP35-05-060-120            | 5                | 60             | 6                                   | 0.035          | 3.5-4.5                    |
| PRP35-05-080-080           | PRP35-05-080-120            | 5                | 80             | 6                                   | 0.035          | 3.5-4.5                    |
| PRP35-05-100-080           | PRP35-05-100-120            | 5                | 100            | 6                                   | 0.035          | 3.5-4.5                    |
| PRP35-05-120-080           | PRP35-05-120-120            | 5                | 120            | 6                                   | 0.035          | 3.5-4.5                    |
| PRP35-05-150-080           | PRP35-05-150-120            | 5                | 150            | 6                                   | 0.035          | 4.5-5.5                    |
| PRP35-06-020-080           | PRP35-06-020-120            | 6                | 20             | 6                                   | 0.035          | 4.5-5.5                    |
| PRP35-06-030-080           | PRP35-06-030-120            | 6                | 30             | 6                                   | 0.035          | 4.5-5.5                    |
| PRP35-06-040-080           | PRP35-06-040-120            | 6                | 40             | 6                                   | 0.035          | 4.5-5.5                    |
| PRP35-06-060-080           | PRP35-06-060-120            | 6                | 60             | 6                                   | 0.035          | 4.5-5.5                    |
| PRP35-06-080-080           | PRP35-06-080-120            | 6                | 80             | 6                                   | 0.035          | 4.5-5.5                    |
| PRP35-06-100-080           | PRP35-06-100-120            | 6                | 100            | 6                                   | 0.035          | 4.5-5.5                    |
| PRP35-06-120-080           | PRP35-06-120-120            | 6                | 120            | 6                                   | 0.035          | 4.5-5.5                    |
| PRP35-06-150-080           | PRP35-06-150-120            | 6                | 150            | 6                                   | 0.035          | 4.5-5.5                    |
| N/A                        | PRP35DR-06-200-120          | 6                | 200            | 6                                   | 0.035          | 4.5-5.5                    |
| PRP35-07-020-080           | PRP35-07-020-120            | 7                | 20             | 6                                   | 0.035          | 5.5-6.5                    |
| PRP35-07-030-080           | PRP35-07-030-120            | 7                | 30             | 6                                   | 0.035          | 5.5-6.5                    |
| PRP35-07-040-080           | PRP35-07-040-120            | 7                | 40             | 6                                   | 0.035          | 5.5-6.5                    |
| PRP35-07-060-080           | PRP35-07-060-120            | 7                | 60             | 6                                   | 0.035          | 5.5-6.5                    |
| PRP35-07-080-080           | PRP35-07-080-120            | 7                | 80             | 6                                   | 0.035          | 5.5-6.5                    |
| PRP35-07-100-080           | PRP35-07-100-120            | 7                | 100            | 6                                   | 0.035          | 5.5-6.5                    |
| PRP35-07-120-080           | PRP35-07-120-120            | 7                | 120            | 6                                   | 0.035          | 5.5-6.5                    |
| PRP35-07-150-080           | PRP35-07-150-120            | 7                | 150            | 6                                   | 0.035          | 5.5-6.5                    |
| N/A                        | PRP35DR-07-200-120          | 7                | 200            | 6                                   | 0.035          | 5.5-6.5                    |
| PRP35-08-020-080           | PRP35-08-020-120            | 8                | 20             | 6                                   | 0.035          | 6.5-7.5                    |
| PRP35-08-030-080           | PRP35-08-030-120            | 8                | 30             | 6                                   | 0.035          | 6.5-7.5                    |
| PRP35-08-040-080           | PRP35-08-040-120            | 8                | 40             | 6                                   | 0.035          | 6.5-7.5                    |
| PRP35-08-060-080           | PRP35-08-060-120            | 8                | 60             | 6                                   | 0.035          | 6.5-7.5                    |
| PRP35-08-080-080           | PRP35-08-080-120            | 8                | 80             | 6                                   | 0.035          | 6.5-7.5                    |
| PRP35-08-100-080           | PRP35-08-100-120            | 8                | 100            | 6                                   | 0.035          | 6.5-7.5                    |
| PRP35-08-120-080           | PRP35-08-120-120            | 8                | 120            | 6                                   | 0.035          | 6.5-7.5                    |
| PRP35-08-150-080           | PRP35-08-150-120            | 8                | 150            | 6                                   | 0.035          | 6.5-7.5                    |
| N/A                        | PRP35DR-08-200-120          | 8                | 200            | 6                                   | 0.035          | 6.5-7.5                    |

Each system includes one stent and delivery catheter system.

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## Self-expanding Peripheral and Biliary Stent System

The Protégé GPS self-expanding peripheral and biliary stent system is a self-expanding, nitinol stent system indicated for the common and external iliac arteries (excluding 14 mm sizes), and designed for the palliative treatment of malignant neoplasms in the biliary tree. The stent is made of a nickel titanium alloy (nitinol) and comes pre-mounted on a 6 F over-the-wire delivery system. The stent is cut from a nitinol tube into an open lattice design and has tantalum radiopaque markers at the proximal and distal ends of the stent.

| Device identifier | Unconstrained stent diameter (mm) | Unconstrained stent length (mm) | Rec. lumen size (mm) | Usable length (cm) | Sheath size (F) | Guidewire acceptance (in) | Outside diameter (in) |
|-------------------|-----------------------------------|---------------------------------|----------------------|--------------------|-----------------|---------------------------|-----------------------|
| SERB65-09-20-80   | 9                                 | 20                              | 7.5-8.5              | 80                 | 6               | 0.035                     | 0.079                 |
| SERB65-09-30-80   | 9                                 | 30                              | 7.5-8.5              | 80                 | 6               | 0.035                     | 0.079                 |
| SERB65-09-40-80   | 9                                 | 40                              | 7.5-8.5              | 80                 | 6               | 0.035                     | 0.079                 |
| SERB65-09-60-80   | 9                                 | 60                              | 7.5-8.5              | 80                 | 6               | 0.035                     | 0.079                 |
| SERB65-09-80-80   | 9                                 | 80                              | 7.5-8.5              | 80                 | 6               | 0.035                     | 0.079                 |
| SERB65-10-20-80   | 10                                | 20                              | 8.5-9.5              | 80                 | 6               | 0.035                     | 0.079                 |
| SERB65-10-30-80   | 10                                | 30                              | 8.5-9.5              | 80                 | 6               | 0.035                     | 0.079                 |
| SERB65-10-40-80   | 10                                | 40                              | 8.5-9.5              | 80                 | 6               | 0.035                     | 0.079                 |
| SERB65-10-60-80   | 10                                | 60                              | 8.5-9.5              | 80                 | 6               | 0.035                     | 0.079                 |
| SERB65-10-80-80   | 10                                | 80                              | 8.5-9.5              | 80                 | 6               | 0.035                     | 0.079                 |
| SERB65-12-20-80   | 12                                | 20                              | 9.5-11.0             | 80                 | 6               | 0.035                     | 0.079                 |
| SERB65-12-30-80   | 12                                | 30                              | 9.5-11.0             | 80                 | 6               | 0.035                     | 0.079                 |
| SERB65-12-40-80   | 12                                | 40                              | 9.5-11.0             | 80                 | 6               | 0.035                     | 0.079                 |
| SERB65-12-60-80   | 12                                | 60                              | 9.5-11.0             | 80                 | 6               | 0.035                     | 0.079                 |
| SERB65-12-80-80   | 12                                | 80                              | 9.5-11.0             | 80                 | 6               | 0.035                     | 0.079                 |
| SERB65-09-20-120  | 9                                 | 20                              | 7.5-8.5              | 120                | 6               | 0.035                     | 0.079                 |
| SERB65-09-30-120  | 9                                 | 30                              | 7.5-8.5              | 120                | 6               | 0.035                     | 0.079                 |
| SERB65-09-40-120  | 9                                 | 40                              | 7.5-8.5              | 120                | 6               | 0.035                     | 0.079                 |
| SERB65-09-60-120  | 9                                 | 60                              | 7.5-8.5              | 120                | 6               | 0.035                     | 0.079                 |
| SERB65-09-80-120  | 9                                 | 80                              | 7.5-8.5              | 120                | 6               | 0.035                     | 0.079                 |
| SERB65-10-20-120  | 10                                | 20                              | 8.5-9.5              | 120                | 6               | 0.035                     | 0.079                 |
| SERB65-10-30-120  | 10                                | 30                              | 8.5-9.5              | 120                | 6               | 0.035                     | 0.079                 |
| SERB65-10-40-120  | 10                                | 40                              | 8.5-9.5              | 120                | 6               | 0.035                     | 0.079                 |
| SERB65-10-60-120  | 10                                | 60                              | 8.5-9.5              | 120                | 6               | 0.035                     | 0.079                 |
| SERB65-10-80-120  | 10                                | 80                              | 8.5-9.5              | 120                | 6               | 0.035                     | 0.079                 |
| SERB65-12-20-120  | 12                                | 20                              | 9.5-11.0             | 120                | 6               | 0.035                     | 0.079                 |
| SERB65-12-30-120  | 12                                | 30                              | 9.5-11.0             | 120                | 6               | 0.035                     | 0.079                 |
| SERB65-12-40-120  | 12                                | 40                              | 9.5-11.0             | 120                | 6               | 0.035                     | 0.079                 |
| SERB65-12-60-120  | 12                                | 60                              | 9.5-11.0             | 120                | 6               | 0.035                     | 0.079                 |
| SERB65-12-80-120  | 12                                | 80                              | 9.5-11.0             | 120                | 6               | 0.035                     | 0.079                 |

Each system includes one stent and delivery catheter system.

# Protégé™ RX

## Self-expanding Carotid Stent System



The Protégé RX stent system is designed for carotid artery stenting. The nitinol stent comes pre-mounted on a 6 F, 0.014" rapid exchange delivery system. The proximal and distal ends of the stent have tantalum radiopaque markers for enhanced visibility.

| Device identifier  | Unconstrained stent diameter (mm) | Unconstrained stent length (mm) | Recommended lumen size (mm) | Usable catheter length (cm) | Sheath size (F) | Guidewire acceptance (in) |
|--------------------|-----------------------------------|---------------------------------|-----------------------------|-----------------------------|-----------------|---------------------------|
| Straight           |                                   |                                 |                             |                             |                 |                           |
| SECX-C-6-20-135    | 6                                 | 20                              | 4.5-5.5                     | 135                         | 6               | 0.014                     |
| SECX-C-6-30-135    | 6                                 | 30                              | 4.5-5.5                     | 135                         | 6               | 0.014                     |
| SECX-C-6-40-135    | 6                                 | 40                              | 4.5-5.5                     | 135                         | 6               | 0.014                     |
| SECX-C-6-60-135    | 6                                 | 60                              | 4.5-5.5                     | 135                         | 6               | 0.014                     |
| SECX-C-7-20-135    | 7                                 | 20                              | 5.5-6.5                     | 135                         | 6               | 0.014                     |
| SECX-C-7-30-135    | 7                                 | 30                              | 5.5-6.5                     | 135                         | 6               | 0.014                     |
| SECX-C-7-40-135    | 7                                 | 40                              | 5.5-6.5                     | 135                         | 6               | 0.014                     |
| SECX-C-7-60-135    | 7                                 | 60                              | 5.5-6.5                     | 135                         | 6               | 0.014                     |
| SECX-C-8-20-135    | 8                                 | 20                              | 6.5-7.5                     | 135                         | 6               | 0.014                     |
| SECX-C-8-30-135    | 8                                 | 30                              | 6.5-7.5                     | 135                         | 6               | 0.014                     |
| SECX-C-8-40-135    | 8                                 | 40                              | 6.5-7.5                     | 135                         | 6               | 0.014                     |
| SECX-C-8-60-135    | 8                                 | 60                              | 6.5-7.5                     | 135                         | 6               | 0.014                     |
| SECX-C-9-20-135    | 9                                 | 20                              | 7.5-8.5                     | 135                         | 6               | 0.014                     |
| SECX-C-9-30-135    | 9                                 | 30                              | 7.5-8.5                     | 135                         | 6               | 0.014                     |
| SECX-C-9-40-135    | 9                                 | 40                              | 7.5-8.5                     | 135                         | 6               | 0.014                     |
| SECX-C-9-60-135    | 9                                 | 60                              | 7.5-8.5                     | 135                         | 6               | 0.014                     |
| SECX-C-10-20-135   | 10                                | 20                              | 8.5-9.5                     | 135                         | 6               | 0.014                     |
| SECX-C-10-30-135   | 10                                | 30                              | 8.5-9.5                     | 135                         | 6               | 0.014                     |
| SECX-C-10-40-135   | 10                                | 40                              | 8.5-9.5                     | 135                         | 6               | 0.014                     |
| SECX-C-10-60-135   | 10                                | 60                              | 8.5-9.5                     | 135                         | 6               | 0.014                     |
| Tapered            |                                   |                                 |                             |                             |                 |                           |
| SECX-C-8-6-30-135  | 8/6                               | 30                              | (6.5-7.5)-(4.5-5.5)         | 135                         | 6               | 0.014                     |
| SECX-C-8-6-40-135  | 8/6                               | 40                              | (6.5-7.5)-(4.5-5.5)         | 135                         | 6               | 0.014                     |
| SECX-C-10-7-30-135 | 10/7                              | 30                              | (8.5-9.5)-(5.5-6.5)         | 135                         | 6               | 0.014                     |
| SECX-C-10-7-40-135 | 10/7                              | 40                              | (8.5-9.5)-(5.5-6.5)         | 135                         | 6               | 0.014                     |

Each system includes one stent and delivery catheter system.





## Balloon-expandable Peripheral Stent System

The Visi-Pro stent system is indicated for use in the common and external iliac, and biliary arteries. It is made from a stainless steel tube that is cut into an open lattice design and has tantalum radiopaque markers at the proximal and distal ends of the stent. The stent is premounted on a balloon catheter delivery system, and is expanded and deployed by inflating the balloon.

| Catheter length            |                             | Stent size       |                | Balloon                | Compatibility                 |                |
|----------------------------|-----------------------------|------------------|----------------|------------------------|-------------------------------|----------------|
| Device identifier<br>80 cm | Device identifier<br>135 cm | Diameter<br>(mm) | Length<br>(mm) | Balloon length<br>(mm) | Rec. introducer<br>sheath (F) | Guidewire (in) |
| PXB35-06-12-080            | -                           | 6                | 12             | 15                     | 6†                            | 0.035          |
| PXB35-06-17-080            | PXB35-06-17-135             | 6                | 17             | 20                     | 6†                            | 0.035          |
| PXB35-06-27-080            | PXB35-06-27-135             | 6                | 27             | 30                     | 6†                            | 0.035          |
| PXB35-06-37-080            | PXB35-06-37-135             | 6                | 37             | 40                     | 6†                            | 0.035          |
| PXB35-06-57-080            | PXB35-06-57-135             | 6                | 57             | 60                     | 6†                            | 0.035          |
| PXB35-07-12-080            | -                           | 7                | 12             | 15                     | 6†                            | 0.035          |
| PXB35-07-17-080            | PXB35-07-17-135             | 7                | 17             | 20                     | 6†                            | 0.035          |
| PXB35-07-27-080            | PXB35-07-27-135             | 7                | 27             | 30                     | 6†                            | 0.035          |
| PXB35-07-37-080            | PXB35-07-37-135             | 7                | 37             | 40                     | 6†                            | 0.035          |
| PXB35-07-57-080            | PXB35-07-57-135             | 7                | 57             | 60                     | 6†                            | 0.035          |
| PXB35-08-17-080            | PXB35-08-17-135             | 8                | 17             | 20                     | 6†                            | 0.035          |
| PXB35-08-27-080            | PXB35-08-27-135             | 8                | 27             | 30                     | 6†                            | 0.035          |
| PXB35-08-37-080            | PXB35-08-37-135             | 8                | 37             | 40                     | 6†                            | 0.035          |
| PXB35-08-57-080            | PXB35-08-57-135             | 8                | 57             | 60                     | 6†                            | 0.035          |
| PXB35-09-17-080            | PXB35-09-17-135             | 9                | 17             | 20                     | 7                             | 0.035          |
| PXB35-09-27-080            | PXB35-09-27-135             | 9                | 27             | 30                     | 7                             | 0.035          |
| PXB35-09-37-080            | PXB35-09-37-135             | 9                | 37             | 40                     | 7                             | 0.035          |
| PXB35-09-57-080            | PXB35-09-57-135             | 9                | 57             | 60                     | 7                             | 0.035          |
| PXB35-10-17-080            | PXB35-10-17-135             | 10               | 17             | 20                     | 7                             | 0.035          |
| PXB35-10-27-080            | PXB35-10-27-135             | 10               | 27             | 30                     | 7                             | 0.035          |
| PXB35-10-37-080            | PXB35-10-37-135             | 10               | 37             | 40                     | 7                             | 0.035          |
| PXB35-10-57-080            | PXB35-10-57-135             | 10               | 57             | 60                     | 7                             | 0.035          |

†6 F = 0.085" I.D

Each system includes one stent and delivery catheter system.



## Biliary Stent System

The IntraStent biliary stent is made from a stainless steel tube that is cut into an open lattice design. Its design allows it to be crimped onto a non-compliant PTA balloon catheter. After it is mounted onto a balloon catheter, the stent is expanded and deployed by inflating the balloon.

| Device identifier                        | Reference number | Unexpanded stent size |             | Expanded stent size |             |
|--|------------------|-----------------------|-------------|---------------------|-------------|
|  |                  | Diameter (mm)         | Length (mm) | Diameter (mm)       | Length (mm) |
| IntraStent™ DoubleStrut LD Biliary Stent |                  |                       |             |                     |             |
| S15-16                                   | 90-1431-000      | 3.8                   | 16.0        | 9, 10, 11, 12       | 16.0        |
| S15-26                                   | 90-1431-001      | 3.8                   | 26.0        | 9, 10, 11, 12       | 26.0        |
| S15-36                                   | 90-1431-002      | 3.8                   | 36.0        | 9, 10, 11, 12       | 36.0        |
| S15-56                                   | 90-1431-003      | 3.8                   | 56.0        | 9, 10, 11, 12       | 56.0        |
| S15-76                                   | 90-1431-004      | 3.8                   | 76.0        | 9, 10, 11, 12       | 76.0        |
| IntraStent™ Mega LD Biliary Stent        |                  |                       |             |                     |             |
| S17-16                                   | 90-2313-000      | 3.8                   | 16.0        | 9, 10, 12           | 16.0        |
| S17-26                                   | 90-2313-001      | 3.8                   | 26.0        | 9, 10, 12           | 26.0        |
| S17-36                                   | 90-2313-002      | 3.8                   | 36.0        | 9, 10, 12           | 36.0        |
| IntraStent™ Max LD Biliary Stent         |                  |                       |             |                     |             |
| S18-16                                   | 90-2319-000      | 4.5                   | 16.0        | 12                  | 16.0        |
| S18-26                                   | 90-2319-001      | 4.5                   | 26.0        | 12                  | 26.0        |
| S18-36                                   | 90-2319-002      | 4.5                   | 36.0        | 12                  | 36.0        |



## Venous Self-expanding Stent System

The Abre venous self-expanding stent system is designed for the unique challenges of venous disease. It offers easy deployment to let physicians focus on their patient, and delivers demonstrated endurance to give patients freedom of movement.<sup>1,2</sup>

<sup>1</sup> Abre stent IFU.

<sup>2</sup> Test data on file at Medtronic. Report 10558227DOC\_Rev A. Bench test results may not be indicative of clinical performance.

| Stent diameters | Stent Lengths and Product Numbers |              |              |              |              |              |
|-----------------|-----------------------------------|--------------|--------------|--------------|--------------|--------------|
|                 | 40 mm                             | 60 mm        | 80 mm        | 100 mm       | 120 mm       | 150 mm       |
| 10 mm           | AB9G10040090                      | AB9G10060090 | AB9G10080090 | AB9G10100090 | AB9G10120090 | AB9G10150090 |
| 12 mm           | -                                 | AB9G12060090 | AB9G12080090 | AB9G12100090 | AB9G12120090 | AB9G12150090 |
| 14 mm           | -                                 | AB9G14060090 | AB9G14080090 | AB9G14100090 | AB9G14120090 | AB9G14150090 |
| 16 mm           | -                                 | AB9G16060090 | AB9G16080090 | AB9G16100090 | AB9G16120090 | AB9G16150090 |
| 18 mm           | -                                 | AB9G18060090 | AB9G18080090 | AB9G18100090 | AB9G18120090 | AB9G18150090 |
| 20 mm           | -                                 | AB9G20060090 | AB9G20080090 | AB9G20100090 | AB9G20120090 | AB9G20150090 |

Risks of the Abre system may include pain, myocardial infarction, pulmonary embolism, and restenosis of stented segment.

Some products/indications/therapy areas may not be licensed in accordance with Canadian Law. Please contact your local representative for further information. 27



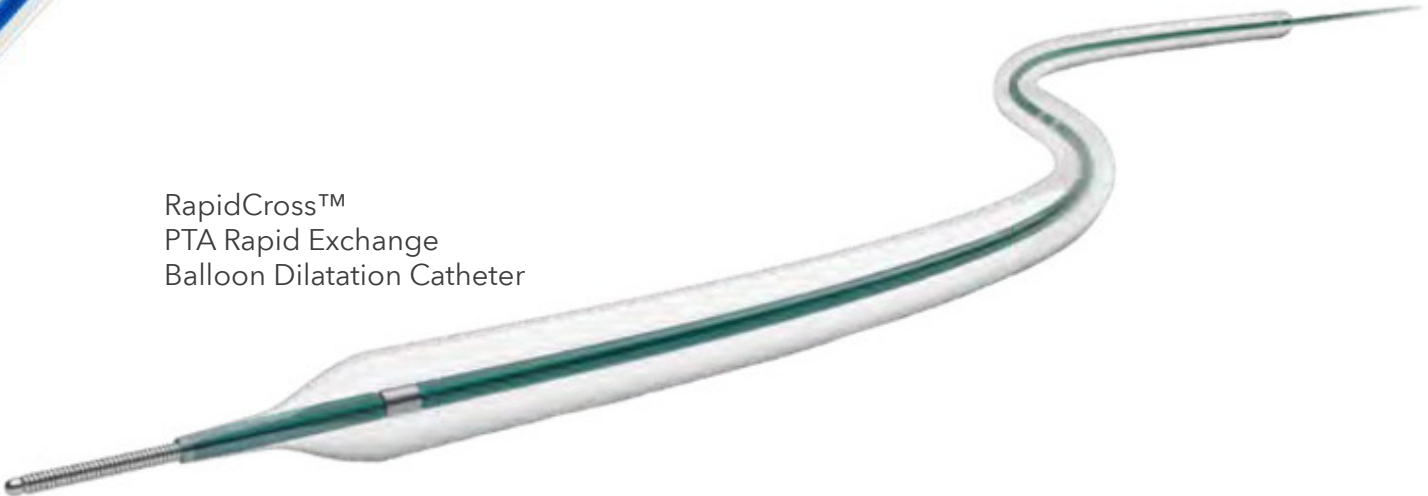
# PTA Balloons



Pacific™ Plus  
PTA Catheter

A long, thin, light purple catheter with a curved tip, shown against a white background with a faint grey circular graphic behind it.

EverCross™ PTA  
Dilatation Catheter

A long, thin, blue catheter with a straight tip, shown against a white background.

RapidCross™  
PTA Rapid Exchange  
Balloon Dilatation Catheter

A long, thin, green catheter with a curved tip and a visible balloon at the end, shown against a white background.

Some products/indications/therapy areas may not be licensed in accordance with Canadian Law. Please contact your local representative for further information.



## 0.035" OTW PTA Dilatation Catheter

The 0.035" EverCross balloon catheter is available in a broad range of balloon sizes.

| Device identifier<br>usable length<br>40 cm | Device identifier<br>usable length<br>80 cm | Device identifier<br>usable length<br>135 cm | Balloon<br>diameter<br>(mm) | Balloon<br>length<br>(mm) | Recomm.<br>introducer<br>sheath (F) | Nominal<br>pressure<br>(atm) | RBP<br>(atm) |
|---|---|--|-----------------------------|---------------------------|-------------------------------------|------------------------------|--------------|
| -   | AB35W03020080                               | AB35W03020135                                | 3.0                         | 20                        | 5                                   | 10                           | 20           |
| -   | AB35W03030080                               | AB35W03030135                                | 3.0                         | 30                        | 5                                   | 10                           | 20           |
| -   | AB35W03040080                               | AB35W03040135                                | 3.0                         | 40                        | 5                                   | 10                           | 20           |
| -   | AB35W03060080                               | AB35W03060135                                | 3.0                         | 60                        | 5                                   | 10                           | 20           |
| -   | AB35W03080080                               | AB35W03080135                                | 3.0                         | 80                        | 5                                   | 10                           | 20           |
| -   | AB35W03100080                               | AB35W03100135                                | 3.0                         | 100                       | 5                                   | 10                           | 20           |
| -   | AB35W03120080                               | AB35W03120135                                | 3.0                         | 120                       | 5                                   | 10                           | 20           |
| -   | AB35W03150080                               | AB35W03150135                                | 3.0                         | 150                       | 5                                   | 10                           | 20           |
| -   | AB35W03200080                               | AB35W03200135                                | 3.0                         | 200                       | 5                                   | 10                           | 20           |
| -   | AB35W04020080                               | AB35W04020135                                | 4.0                         | 20                        | 5                                   | 10                           | 20           |
| -   | AB35W04030080                               | AB35W04030135                                | 4.0                         | 30                        | 5                                   | 10                           | 20           |
| -   | AB35W04040080                               | AB35W04040135                                | 4.0                         | 40                        | 5                                   | 10                           | 20           |
| -   | AB35W04060080                               | AB35W04060135                                | 4.0                         | 60                        | 5                                   | 10                           | 20           |
| -   | AB35W04080080                               | AB35W04080135                                | 4.0                         | 80                        | 5                                   | 10                           | 20           |
| -   | AB35W04100080                               | AB35W04100135                                | 4.0                         | 100                       | 5                                   | 10                           | 20           |
| -   | AB35W04120080                               | AB35W04120135                                | 4.0                         | 120                       | 5                                   | 10                           | 20           |
| -   | AB35W04150080                               | AB35W04150135                                | 4.0                         | 150                       | 5                                   | 10                           | 20           |
| -   | AB35W04200080                               | AB35W04200135                                | 4.0                         | 200                       | 5                                   | 10                           | 20           |
| AB35W05020040                               | AB35W05020080                               | AB35W05020135                                | 5.0                         | 20                        | 5                                   | 10                           | 18           |
| AB35W05030040                               | AB35W05030080                               | AB35W05030135                                | 5.0                         | 30                        | 5                                   | 10                           | 18           |
| AB35W05040040                               | AB35W05040080                               | AB35W05040135                                | 5.0                         | 40                        | 5                                   | 10                           | 18           |
| AB35W05060040                               | AB35W05060080                               | AB35W05060135                                | 5.0                         | 60                        | 5                                   | 10                           | 18           |
| AB35W05080040                               | AB35W05080080                               | AB35W05080135                                | 5.0                         | 80                        | 5                                   | 10                           | 18           |
| -   | AB35W05100080                               | AB35W05100135                                | 5.0                         | 100                       | 5                                   | 10                           | 18           |
| AB35W05120040                               | AB35W05120080                               | AB35W05120135                                | 5.0                         | 120                       | 5                                   | 10                           | 16           |
| -   | AB35W05150080                               | AB35W05150135                                | 5.0                         | 150                       | 5                                   | 10                           | 16           |
| -   | AB35W05200080                               | AB35W05200135                                | 5.0                         | 200                       | 5                                   | 10                           | 16           |
| AB35W06020040                               | AB35W06020080                               | AB35W06020135                                | 6.0                         | 20                        | 5                                   | 8                            | 14           |
| -   | AB35W06030080                               | AB35W06030135                                | 6.0                         | 30                        | 5                                   | 8                            | 14           |
| AB35W06040040                               | AB35W06040080                               | AB35W06040135                                | 6.0                         | 40                        | 5                                   | 8                            | 14           |
| -   | AB35W06060080                               | AB35W06060135                                | 6.0                         | 60                        | 5                                   | 8                            | 14           |
| AB35W06080040                               | AB35W06080080                               | AB35W06080135                                | 6.0                         | 80                        | 5                                   | 8                            | 14           |
| -   | AB35W06100080                               | AB35W06100135                                | 6.0                         | 100                       | 5                                   | 8                            | 14           |
| AB35W06120040                               | AB35W06120080                               | AB35W06120135                                | 6.0                         | 120                       | 5                                   | 8                            | 12           |
| -   | AB35W06150080                               | AB35W06150135                                | 6.0                         | 150                       | 5                                   | 8                            | 12           |
| -   | AB35W06200080                               | AB35W06200135                                | 6.0                         | 200                       | 6                                   | 8                            | 11           |
| AB35W07020040                               | AB35W07020080                               | AB35W07020135                                | 7.0                         | 20                        | 5                                   | 7                            | 14           |
| -   | AB35W07030080                               | AB35W07030135                                | 7.0                         | 30                        | 5                                   | 7                            | 14           |
| AB35W07040040                               | AB35W07040080                               | AB35W07040135                                | 7.0                         | 40                        | 5                                   | 7                            | 14           |
| AB35W07060040                               | AB35W07060080                               | AB35W07060135                                | 7.0                         | 60                        | 6                                   | 7                            | 14           |
| -   | AB35W07080080                               | AB35W07080135                                | 7.0                         | 80                        | 6                                   | 7                            | 14           |
| -   | AB35W07100080                               | AB35W07100135                                | 7.0                         | 100                       | 6                                   | 7                            | 14           |
| -   | AB35W07120080                               | AB35W07120135                                | 7.0                         | 120                       | 6                                   | 7                            | 10           |
| -   | AB35W07150080                               | AB35W07150135                                | 7.0                         | 150                       | 6                                   | 7                            | 10           |
| -   | AB35W07200080                               | AB35W07200135                                | 7.0                         | 200                       | 6                                   | 7                            | 10           |
| AB35W08020040                               | AB35W08020080                               | AB35W08020135                                | 8.0                         | 20                        | 6                                   | 7                            | 14           |
| -   | AB35W08030080                               | AB35W08030135                                | 8.0                         | 30                        | 6                                   | 7                            | 14           |
| AB35W08040040                               | AB35W08040080                               | AB35W08040135                                | 8.0                         | 40                        | 6                                   | 7                            | 14           |
| AB35W08060040                               | AB35W08060080                               | AB35W08060135                                | 8.0                         | 60                        | 6                                   | 7                            | 14           |
| -   | AB35W08080080                               | AB35W08080135                                | 8.0                         | 80                        | 6                                   | 7                            | 14           |
| -   | AB35W09020080                               | AB35W09020135                                | 9.0                         | 20                        | 6                                   | 7                            | 12           |
| -   | AB35W09030080                               | AB35W09030135                                | 9.0                         | 30                        | 6                                   | 7                            | 12           |
| -   | AB35W09040080                               | AB35W09040135                                | 9.0                         | 40                        | 6                                   | 7                            | 12           |
| -   | AB35W09060080                               | AB35W09060135                                | 9.0                         | 60                        | 6                                   | 7                            | 12           |
| -   | AB35W09080080                               | AB35W09080135                                | 9.0                         | 80                        | 6                                   | 7                            | 12           |
| -   | AB35W10020080                               | AB35W10020135                                | 10.0                        | 20                        | 6                                   | 7                            | 11           |
| -   | AB35W10030080                               | AB35W10030135                                | 10.0                        | 30                        | 6                                   | 7                            | 11           |
| -   | AB35W10040080                               | AB35W10040135                                | 10.0                        | 40                        | 6                                   | 7                            | 11           |
| -   | AB35W10060080                               | AB35W10060135                                | 10.0                        | 60                        | 7                                   | 7                            | 11           |
| -   | AB35W12020080                               | AB35W12020135                                | 12.0                        | 20                        | 7                                   | 7                            | 10           |
| -   | AB35W12040080                               | AB35W12040135                                | 12.0                        | 40                        | 7                                   | 7                            | 10           |
| -   | AB35W12060080                               | AB35W12060135                                | 12.0                        | 60                        | 7                                   | 7                            | 10           |

# Admiral Xtreme™

## PTA Balloon Catheter



Treat longer peripheral arterial disease (PAD) lesions above the knee with the Admiral Xtreme PTA balloon catheter. The Admiral Xtreme is offered in 250 and 300 mm lengths, with 0.035" guidewire compatibility, featuring large inflation lumen for rapid inflation and deflation.†

†Data on file at Medtronic in 10613058DOC, CP076TP02R, and CP076TP04R. Bench test results may not be indicative of clinical performance.

| Device identifier<br>usable length<br>80 cm | Device identifier<br>usable length<br>130 cm | Balloon<br>diameter<br>(mm) | Balloon<br>length<br>(mm) | Recom.<br>introducer<br>sheath (F) | Nominal<br>pressure (atm) | RBP<br>(atm) |
|---|--|-----------------------------|---------------------------|------------------------------------|---------------------------|--------------|
| ADM 040 250 080                             | ADM 040 250 130                              | 4.0                         | 250                       | 5                                  | 6                         | 14           |
| ADM 040 300 080                             | ADM 040 300 130                              | 4.0                         | 300                       | 5                                  | 6                         | 14           |
| ADM 050 250 080                             | ADM 050 250 130                              | 5.0                         | 250                       | 5                                  | 6                         | 14           |
| ADM 050 300 080 L                           | ADM 050 300 130 L                            | 5.0                         | 300                       | 5                                  | 6                         | 14           |
| ADM 060 250 080 L                           | ADM 060 250 130 L                            | 6.0                         | 250                       | 5                                  | 6                         | 12           |
| ADM 060 300 080 L                           | ADM 060 300 130 L                            | 6.0                         | 300                       | 5                                  | 6                         | 12           |
| ADM 070 250 080                             | ADM 070 250 130                              | 7.0                         | 250                       | 6                                  | 6                         | 12           |

# Pacific™ Plus

## PTA Catheter OTW 0.018"



The Pacific Plus PTA catheter is the go-to balloon for treating peripheral arterial disease (PAD) lesions. Through its broad size matrix and low 0.018" profile, it offers versatility to handle cases above the knee (ATK) and below the knee (BTK) from various access points.

| Usable length<br>90 cm | Usable length<br>130 cm | Usable length<br>180 cm | Usable length<br>200 cm | Balloon<br>diameter<br>(mm) | Balloon<br>length<br>(mm) | Minimum<br>sheath inner<br>diameter (F) | Nominal<br>pressure<br>(atm) | RBP<br>(atm) |
|------------------------|-------------------------|-------------------------|-------------------------|-----------------------------|---------------------------|---|------------------------------|--------------|
| PCE020020090           | PCE020020130            | PCE020020180            | -                       | 2.00                        | 20                        | 4                                       | 8                            | 22           |
| PCE020040090           | PCE020040130            | PCE020040180            | -                       | 2.00                        | 40                        | 4                                       | 8                            | 22           |
| PCE020060090           | PCE020060130            | PCE020060180            | -                       | 2.00                        | 60                        | 4                                       | 8                            | 22           |
| PCE020080090           | PCE020080130            | PCE020080180            | -                       | 2.00                        | 80                        | 4                                       | 8                            | 22           |
| PCE020120090           | PCE020120130            | PCE020120180            | -                       | 2.00                        | 120                       | 4                                       | 8                            | 22           |
| PCE020150090           | PCE020150130            | PCE020150180            | -                       | 2.00                        | 150                       | 4                                       | 8                            | 22           |
| PCE025020090           | PCE025020130            | PCE025020180            | -                       | 2.50                        | 20                        | 4                                       | 8                            | 16           |
| PCE025040090           | PCE025040130            | PCE025040180            | -                       | 2.50                        | 40                        | 4                                       | 8                            | 16           |
| PCE025060090           | PCE025060130            | PCE025060180            | -                       | 2.50                        | 60                        | 4                                       | 8                            | 16           |
| PCE025080090           | PCE025080130            | PCE025080180            | -                       | 2.50                        | 80                        | 4                                       | 8                            | 16           |
| PCE025120090           | PCE025120130            | PCE025120180            | -                       | 2.50                        | 120                       | 4                                       | 8                            | 16           |
| PCE025150090           | PCE025150130            | PCE025150180            | -                       | 2.50                        | 150                       | 4                                       | 8                            | 16           |
| PCE030020090           | PCE030020130            | PCE030020180            | -                       | 3.00                        | 20                        | 4                                       | 8                            | 16           |
| PCE030040090           | PCE030040130            | PCE030040180            | -                       | 3.00                        | 40                        | 4                                       | 8                            | 16           |
| PCE030060090           | PCE030060130            | PCE030060180            | -                       | 3.00                        | 60                        | 4                                       | 8                            | 16           |
| PCE030080090           | PCE030080130            | PCE030080180            | -                       | 3.00                        | 80                        | 4                                       | 8                            | 16           |
| PCE030120090           | PCE030120130            | PCE030120180            | -                       | 3.00                        | 120                       | 4                                       | 8                            | 16           |
| PCE030150090           | PCE030150130            | PCE030150180            | -                       | 3.00                        | 150                       | 4                                       | 8                            | 16           |
| PCE035020090           | PCE035020130            | PCE035020180            | -                       | 3.50                        | 20                        | 4                                       | 8                            | 16           |
| PCE035040090           | PCE035040130            | PCE035040180            | -                       | 3.50                        | 40                        | 4                                       | 8                            | 16           |
| PCE035060090           | PCE035060130            | PCE035060180            | -                       | 3.50                        | 60                        | 4                                       | 8                            | 16           |
| PCE035080090           | PCE035080130            | PCE035080180            | -                       | 3.50                        | 80                        | 4                                       | 8                            | 16           |
| PCE035120090           | PCE035120130            | PCE035120180            | -                       | 3.50                        | 120                       | 4                                       | 8                            | 16           |
| PCE035150090           | PCE035150130            | PCE035150180            | -                       | 3.50                        | 150                       | 4                                       | 8                            | 16           |

# NanoCross™ Elite



## 0.014" OTW PTA Balloon Dilatation Catheter

Go deep and cross difficult lesions with NanoCross Elite balloon catheter.† Its seamless design, from balloon to tip, offers efficient energy transfer.‡

†Medtronic data on file in reports RE-PV12779, RE-PV13497.

‡Medtronic data on file in reports RE-PV12779, RE-PV13497, RE-PV13040, RE-PV13834, RE-PV12882, and RE-PV13697.

| Device identifier<br>usable length<br>90 cm | Device identifier<br>usable length<br>150 cm | Balloon<br>diameter<br>(mm) | Balloon<br>length<br>(mm) | Recomm.<br>introducer<br>sheath (F) | Nominal<br>pressure<br>(atm) | RBP<br>(atm) |
|---|--|-----------------------------|---------------------------|-------------------------------------|------------------------------|--------------|
| AB14W015020090                              | AB14W015020150                               | 1.5                         | 20                        | 4                                   | 8                            | 14           |
| AB14W015040090                              | AB14W015040150                               | 1.5                         | 40                        | 4                                   | 8                            | 14           |
| AB14W020020090                              | AB14W020020150                               | 2.0                         | 20                        | 4                                   | 8                            | 14           |
| AB14W020040090                              | AB14W020040150                               | 2.0                         | 40                        | 4                                   | 8                            | 14           |
| AB14W020060090                              | AB14W020060150                               | 2.0                         | 60                        | 4                                   | 8                            | 14           |
| AB14W020080090                              | AB14W020080150                               | 2.0                         | 80                        | 4                                   | 8                            | 14           |
| AB14W020100090                              | AB14W020100150                               | 2.0                         | 100                       | 4                                   | 8                            | 14           |
| AB14W020120090                              | AB14W020120150                               | 2.0                         | 120                       | 4                                   | 8                            | 14           |
| AB14W020150090                              | AB14W020150150                               | 2.0                         | 150                       | 4                                   | 8                            | 14           |
| AB14W020210090                              | AB14W020210150                               | 2.0 (proximal)/1.5 (distal) | 210                       | 4                                   | 8                            | 14           |
| AB14W025020090                              | AB14W025020150                               | 2.5                         | 20                        | 4                                   | 8                            | 14           |
| AB14W025040090                              | AB14W025040150                               | 2.5                         | 40                        | 4                                   | 8                            | 14           |
| AB14W025060090                              | AB14W025060150                               | 2.5                         | 60                        | 4                                   | 8                            | 14           |
| AB14W025080090                              | AB14W025080150                               | 2.5                         | 80                        | 4                                   | 8                            | 14           |
| AB14W025100090                              | AB14W025100150                               | 2.5                         | 100                       | 4                                   | 8                            | 14           |
| AB14W025120090                              | AB14W025120150                               | 2.5                         | 120                       | 4                                   | 8                            | 14           |
| AB14W025150090                              | AB14W025150150                               | 2.5                         | 150                       | 4                                   | 8                            | 14           |
| AB14W025210090                              | AB14W025210150                               | 2.5 (proximal)/2.0 (distal) | 210                       | 4                                   | 8                            | 14           |
| AB14W030020090                              | AB14W030020150                               | 3.0                         | 20                        | 4                                   | 8                            | 14           |
| AB14W030040090                              | AB14W030040150                               | 3.0                         | 40                        | 4                                   | 8                            | 14           |
| AB14W030060090                              | AB14W030060150                               | 3.0                         | 60                        | 4                                   | 8                            | 14           |
| AB14W030080090                              | AB14W030080150                               | 3.0                         | 80                        | 4                                   | 8                            | 14           |
| AB14W030100090                              | AB14W030100150                               | 3.0                         | 100                       | 4                                   | 8                            | 14           |
| AB14W030120090                              | AB14W030120150                               | 3.0                         | 120                       | 4                                   | 8                            | 14           |
| AB14W030150090                              | AB14W030150150                               | 3.0                         | 150                       | 4                                   | 8                            | 14           |
| AB14W030210090                              | AB14W030210150                               | 3.0 (proximal)/2.5 (distal) | 210                       | 4                                   | 8                            | 14           |
| AB14W035020090                              | AB14W035020150                               | 3.5                         | 20                        | 4                                   | 8                            | 14           |
| AB14W035040090                              | AB14W035040150                               | 3.5                         | 40                        | 4                                   | 8                            | 14           |
| AB14W035060090                              | AB14W035060150                               | 3.5                         | 60                        | 4                                   | 8                            | 14           |
| AB14W035080090                              | AB14W035080150                               | 3.5                         | 80                        | 4                                   | 8                            | 14           |
| AB14W035100090                              | AB14W035100150                               | 3.5                         | 100                       | 4                                   | 8                            | 14           |
| AB14W035120090                              | AB14W035120150                               | 3.5                         | 120                       | 4                                   | 8                            | 14           |
| AB14W035150090                              | AB14W035150150                               | 3.5                         | 150                       | 4                                   | 8                            | 14           |
| AB14W035210090                              | AB14W035210150                               | 3.5 (proximal)/3.0 (distal) | 210                       | 4                                   | 8                            | 14           |
| AB14W040020090                              | AB14W040020150                               | 4.0                         | 20                        | 4                                   | 8                            | 14           |
| AB14W040040090                              | AB14W040040150                               | 4.0                         | 40                        | 4                                   | 8                            | 14           |
| AB14W040060090                              | AB14W040060150                               | 4.0                         | 60                        | 4                                   | 8                            | 14           |
| AB14W040080090                              | AB14W040080150                               | 4.0                         | 80                        | 4                                   | 8                            | 14           |
| AB14W040100090                              | AB14W040100150                               | 4.0                         | 100                       | 4                                   | 8                            | 14           |
| AB14W040120090                              | AB14W040120150                               | 4.0                         | 120                       | 4                                   | 8                            | 14           |
| AB14W040150090                              | AB14W040150150                               | 4.0                         | 150                       | 4                                   | 8                            | 14           |
| AB14W040210090                              | AB14W040210150                               | 4.0 (proximal)/3.5 (distal) | 210                       | 4                                   | 8                            | 14           |
| AB14W050020090                              | AB14W050020150                               | 5.0                         | 20                        | 5                                   | 8                            | 14           |
| AB14W050040090                              | AB14W050040150                               | 5.0                         | 40                        | 5                                   | 8                            | 14           |
| AB14W050060090                              | AB14W050060150                               | 5.0                         | 60                        | 5                                   | 8                            | 14           |

Risks of NanoCross Elite balloon may include abrupt or subacute closure, pseudo-aneurysm, thrombosis, allergic reaction to device materials or procedural medications, arterial injury (such as dissection, perforation or rupture), embolism, hematoma, and hemorrhage.

Some products/indications/therapy areas may not be licensed in accordance with Canadian Law. Please contact your local representative for further information.

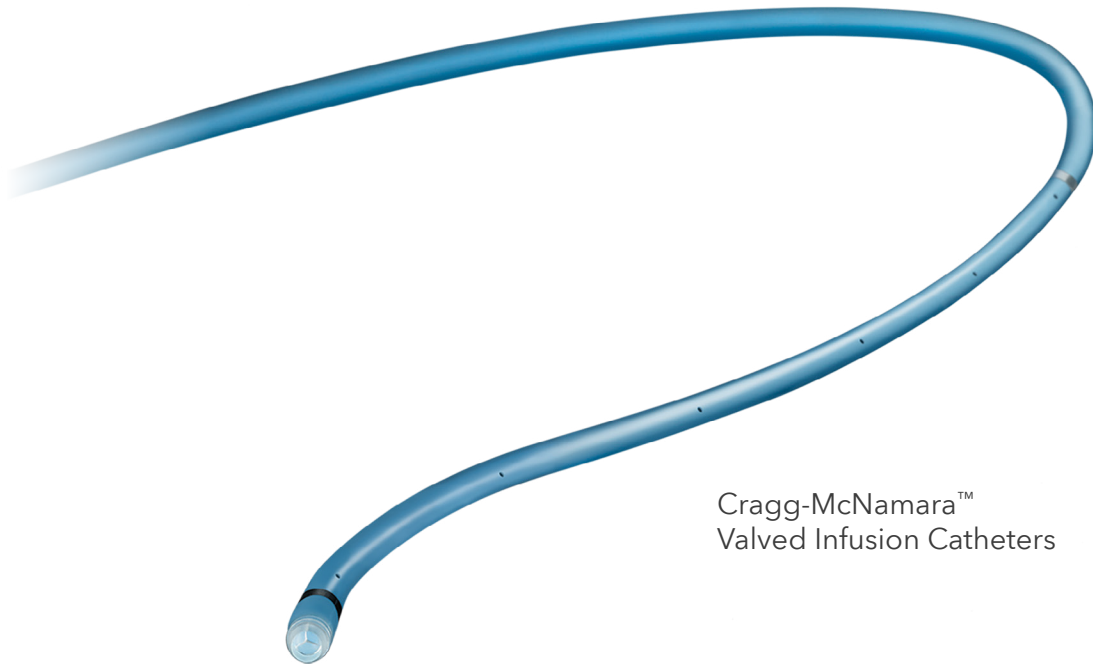




| Device identifier<br>usable length<br>90 cm | Device identifier<br>usable length<br>150 cm | Balloon<br>diameter<br>(mm) | Balloon<br>length<br>(mm) | Recomm.<br>introducer<br>sheath (F) | Nominal<br>pressure<br>(atm) | RBP<br>(atm) |
|---|--|-----------------------------|---------------------------|-------------------------------------|------------------------------|--------------|
| AB14W050080090                              | AB14W050080150                               | 5.0                         | 80                        | 5                                   | 8                            | 14           |
| AB14W050100090                              | AB14W050100150                               | 5.0                         | 100                       | 5                                   | 8                            | 14           |
| AB14W050120090                              | AB14W050120150                               | 5.0                         | 120                       | 5                                   | 8                            | 14           |
| AB14W050150090                              | AB14W050150150                               | 5.0                         | 150                       | 5                                   | 8                            | 14           |
| AB14W050200090                              | AB14W050200150                               | 5.0                         | 200                       | 5                                   | 8                            | 14           |
| AB14W060020090                              | AB14W060020150                               | 6.0                         | 20                        | 5                                   | 8                            | 14           |
| AB14W060040090                              | AB14W060040150                               | 6.0                         | 40                        | 5                                   | 8                            | 14           |
| AB14W060060090                              | AB14W060060150                               | 6.0                         | 60                        | 5                                   | 8                            | 14           |
| AB14W060080090                              | AB14W060080150                               | 6.0                         | 80                        | 5                                   | 8                            | 14           |
| AB14W060100090                              | AB14W060100150                               | 6.0                         | 100                       | 5                                   | 8                            | 14           |
| AB14W060120090                              | AB14W060120150                               | 6.0                         | 120                       | 5                                   | 8                            | 14           |
| AB14W060150090                              | AB14W060150150                               | 6.0                         | 150                       | 5                                   | 8                            | 14           |
| AB14W060200090                              | AB14W060200150                               | 6.0                         | 200                       | 6                                   | 8                            | 14           |



# Infusion Therapy



Cragg-McNamara™  
Valved Infusion Catheters

# Cragg-McNamara™

## Valved Infusion Catheter

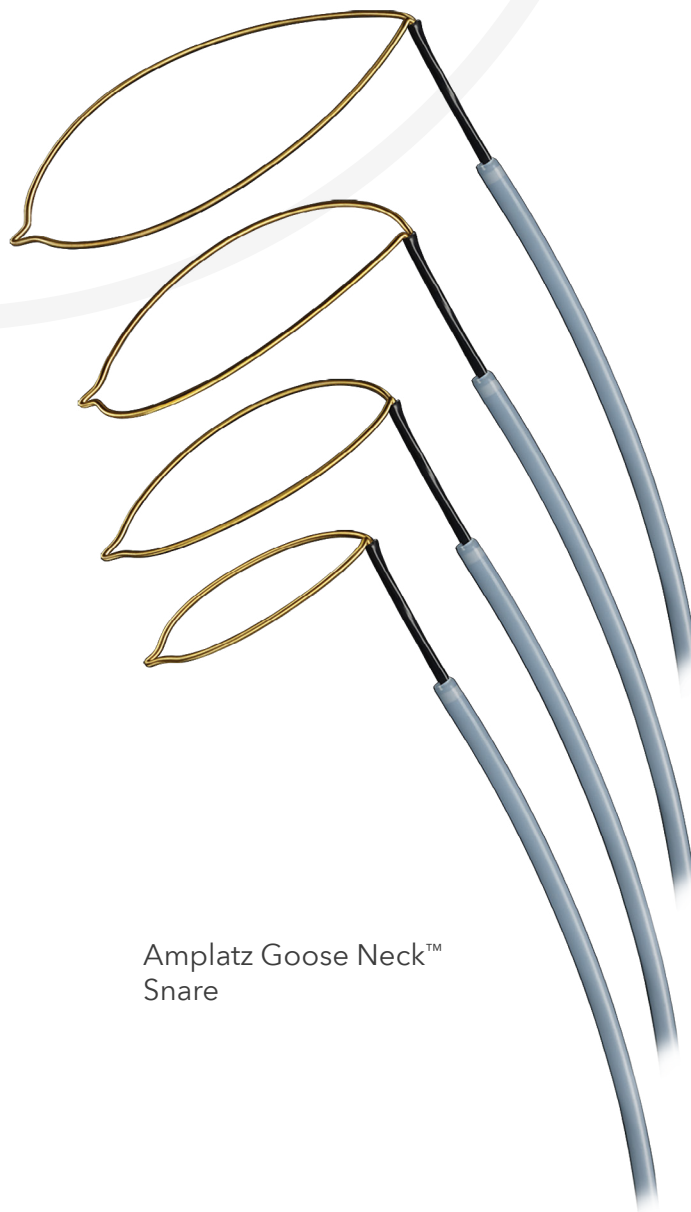


The Cragg-McNamara catheter is a 4 or 5 F single-lumen catheter with a proprietary valved tip, which gives the option to infuse without a guidewire in place.

| Device identifier | Introducer sheath (F) | Usable length (cm) | Infusion length (cm) | Max. guidewire (in) |
|-------------------|-----------------------|--------------------|----------------------|---------------------|
| 41032-01          | 4                     | 40                 | 10                   | 0.035               |
| 41033-01          | 4                     | 40                 | 20                   | 0.035               |
| 41034-01          | 4                     | 65                 | 5                    | 0.035               |
| 41035-01          | 4                     | 65                 | 10                   | 0.035               |
| 41036-01          | 4                     | 65                 | 20                   | 0.035               |
| 41037-01          | 4                     | 100                | 5                    | 0.035               |
| 41038-01          | 4                     | 100                | 10                   | 0.035               |
| 41039-01          | 4                     | 100                | 20                   | 0.035               |
| 41040-01          | 4                     | 135                | 5                    | 0.035               |
| 41041-01          | 4                     | 135                | 10                   | 0.035               |
| 41042-01          | 4                     | 135                | 20                   | 0.035               |
| 41043-01          | 5                     | 40                 | 5                    | 0.038               |
| 41044-01          | 5                     | 40                 | 10                   | 0.038               |
| 41045-01          | 5                     | 40                 | 20                   | 0.038               |
| 41046-01          | 5                     | 65                 | 5                    | 0.038               |
| 41047-01          | 5                     | 65                 | 10                   | 0.038               |
| 41048-01          | 5                     | 65                 | 20                   | 0.038               |
| 41049-01          | 5                     | 100                | 5                    | 0.038               |
| 41050-01          | 5                     | 100                | 10                   | 0.038               |
| 41051-01          | 5                     | 100                | 20                   | 0.038               |
| 41052-01          | 5                     | 100                | 30                   | 0.038               |
| 41053-01          | 5                     | 100                | 40                   | 0.038               |
| 41054-01          | 5                     | 100                | 50                   | 0.038               |
| 41055-01          | 5                     | 135                | 5                    | 0.038               |
| 41056-01          | 5                     | 135                | 10                   | 0.038               |
| 41057-01          | 5                     | 135                | 20                   | 0.038               |
| 41058-01          | 5                     | 135                | 30                   | 0.038               |
| 41059-01          | 5                     | 135                | 40                   | 0.038               |
| 41060-01          | 5                     | 135                | 50                   | 0.038               |



# Snare



Amplatz Goose Neck™  
Snare

# Amplatz Goose Neck™



## Snare Kit

The Amplatz Goose Neck snare kit is intended for use in the retrieval of atraumatic foreign bodies. Each kit contains one snare, one catheter, one introducer, and one torque device. The snare is constructed of nitinol cable and a gold-plated tungsten loop. Because of the snare's preformed loop and superelastic construction, it can be introduced through catheters without the risk of snare deformation.† The snare catheter has a platinum-iridium radiopaque marker band. The Amplatz Goose Neck snare kit is intended for the cardiovascular and peripheral vascular systems.

†Amplatz snare kit IFU.

| Device identifier | Loop diameter (mm) | Snare length (cm) | Catheter size (F) | Catheter length (cm) |
|-------------------|--------------------|-------------------|-------------------|----------------------|
| GN500             | 5                  | 120               | 4                 | 102                  |
| GN1000            | 10                 | 120               | 4                 | 102                  |
| GN1001            | 10                 | 65                | 4                 | 48                   |
| GN1500            | 15                 | 120               | 6                 | 102                  |
| GN2000            | 20                 | 120               | 6                 | 102                  |
| GN2500            | 25                 | 120               | 6                 | 102                  |
| GN2501            | 25                 | 65                | 6                 | 48                   |
| GN3000            | 30                 | 120               | 6                 | 102                  |
| GN3500            | 35                 | 120               | 6                 | 102                  |

# Amplatz Goose Neck™

## Microsnare Kit

The Amplatz Goose Neck microsnare kit is intended for the coronary and peripheral vascular systems and the extracranial neurovascular anatomy. Each kit contains one microsnare, one microsnare catheter, one introducer, and one torque device.

| Device identifier | Loop diameter (mm) | Snare length (cm) | Catheter size (F) | Catheter length (cm) |
|-------------------|--------------------|-------------------|-------------------|----------------------|
| SK200             | 2                  | 175               | 2.3-3             | 150                  |
| SK201             | 2                  | 200               | 2.3-3             | 175                  |
| SK400             | 4                  | 175               | 2.3-3             | 150                  |
| SK401             | 4                  | 200               | 2.3-3             | 175                  |
| SK700             | 7                  | 175               | 2.3-3             | 150                  |
| SK701             | 7                  | 200               | 2.3-3             | 175                  |



# Guidewires



Wholey™  
Guidewire System

A green, coiled guidewire with a silver, knurled handle at one end. The wire is curved into a large 'S' shape. A thin green line extends from the top of the coil.

Nitrex™  
Guidewire

A thin, straight guidewire with a gold-colored tip and a silver handle. The wire is mostly black with a gold-colored section at the tip.



The Wholey™\* guidewire is intended to facilitate the placement and exchange of interventional devices during diagnostic or therapeutic interventional procedures. Wholey™\* guidewires provide torqueability and lubricity, allowing interventionalists to approach challenging cases with confidence. Each Wholey™\* wire, excluding the extension system, is packaged with a torque device.

| Device identifier | Description                          | Stiffness profile | Tip style            | Size outer dia. (in) | Size length (cm) | Quantity |
|-------------------|--------------------------------------|-------------------|----------------------|----------------------|------------------|----------|
| WWFS35145         | Floppy tip, extension compatible     | Floppy            | Straight/Shapeable   | 0.035                | 145              | 3/Pkg    |
| WWFS35175         | Floppy tip, extension compatible     | Floppy            | Straight/Shapeable   | 0.035                | 175              | 3/Pkg    |
| WWFS35260         | Floppy tip, exchange length          | Floppy            | Straight/Shapeable   | 0.035                | 260              | 3/Pkg    |
| WWFS35300         | Floppy tip, exchange length          | Floppy            | Straight/Shapeable   | 0.035                | 300              | 3/Pkg    |
| WWIJ35145         | Modified J tip, extension compatible | Intermediate      | Modified J/Shapeable | 0.035                | 145              | 3/Pkg    |
| WWIJ35175         | Modified J tip, extension compatible | Intermediate      | Modified J/Shapeable | 0.035                | 175              | 3/Pkg    |
| WWIJ35260         | Modified J tip, exchange length      | Intermediate      | Modified J/Shapeable | 0.035                | 260              | 3/Pkg    |
| WWIJ35300         | Modified J tip, exchange length      | Intermediate      | Modified J/Shapeable | 0.035                | 300              | 3/Pkg    |
| WWSS35145         | Standard tip, extension compatible   | Standard          | Straight/Shapeable   | 0.035                | 145              | 3/Pkg    |
| WWSS35175         | Standard tip, extension compatible   | Standard          | Straight/Shapeable   | 0.035                | 175              | 3/Pkg    |
| WWSS35260         | Standard tip, exchange length        | Standard          | Straight/Shapeable   | 0.035                | 260              | 3/Pkg    |
| WWSS35300         | Standard tip, exchange length        | Standard          | Straight/Shapeable   | 0.035                | 300              | 3/Pkg    |
| WWES35001         | Extension system                     | Standard          | Straight/Shapeable   | 0.035                | 155              | 3/Pkg    |
| WWTD35001         | Kendall™* torque device              | NA                | NA                   | 0.025"-0.038"        | NA               | 10/Pkg   |



## Guidewire

Nitrex guidewires are constructed of a superelastic nitinol core wire with a gold-plated tungsten coil for visibility. The wires have proprietary silicone coating for ease in placement. A torque device is packaged with 0.014" and 0.018" Nitrex guidewires. The 0.014" and 0.018" Nitrex guidewires are indicated for use in the peripheral and coronary vasculatures. The 0.025" and 0.035" Nitrex guidewires are indicated for use in the peripheral vasculature.

| Device identifier (3/Package) <sup>†</sup> | Diameter (in) | Length (cm) | Tip style | Tip length (cm) | Tip shape | Tip angle (°) |
|--|---------------|-------------|-----------|-----------------|-----------|---------------|
| <b>0.014"</b>                              |               |             |           |                 |           |               |
| N140801                                    | 0.014         | 80          | INT       | 5               | A         | 15            |
| N141802                                    | 0.014         | 180         | INT       | 5               | A         | 15            |
| N143001                                    | 0.014         | 300         | INT       | 5               | A         | 15            |
| <b>0.018"</b>                              |               |             |           |                 |           |               |
| N180601                                    | 0.018         | 60          | INT       | 5               | S         | 0             |
| N180603                                    | 0.018         | 60          | INT       | 7               | S         | 0             |
| N180801                                    | 0.018         | 80          | STD       | 2               | S         | 0             |
| N180802                                    | 0.018         | 80          | INT       | 5               | A         | 15            |
| N181804                                    | 0.018         | 180         | STD       | 2               | S         | 0             |
| N181805                                    | 0.018         | 180         | INT       | 5               | A         | 15            |
| N181806                                    | 0.018         | 180         | FLOP      | 20              | A         | 15            |
| N183001                                    | 0.018         | 300         | STD       | 2               | S         | 0             |
| N183002                                    | 0.018         | 300         | INT       | 5               | A         | 15            |
| <b>0.025"</b>                              |               |             |           |                 |           |               |
| N251801                                    | 0.025         | 180         | INT       | 8               | A         | 15            |
| N251802                                    | 0.025         | 180         | STD       | 2               | S         | 0             |
| N252601                                    | 0.025         | 260         | INT       | 8               | A         | 15            |
| <b>0.035" Flexible Shaft</b>               |               |             |           |                 |           |               |
| N351451                                    | 0.035         | 145         | INT       | 15              | S         | 0             |
| N351452                                    | 0.035         | 145         | INT       | 15              | A         | 45            |
| N351803                                    | 0.035         | 180         | INT       | 15              | S         | 0             |
| N352601                                    | 0.035         | 260         | INT       | 15              | A         | 45            |
| N354001                                    | 0.035         | 400         | INT       | 15              | S         | 0             |
| <b>0.035" Stiff Shaft</b>                  |               |             |           |                 |           |               |
| N350801                                    | 0.035         | 80          | INT       | 9               | S         | 0             |
| N351453                                    | 0.035         | 145         | FLOP      | 14              | A         | 45            |
| N351454                                    | 0.035         | 145         | INT       | 9               | S         | 0             |
| N351455                                    | 0.035         | 145         | FLOP      | 14              | S         | 0             |
| N351804                                    | 0.035         | 180         | INT       | 9               | S         | 0             |
| N351805                                    | 0.035         | 180         | STD       | 4               | A         | 45            |
| N352602                                    | 0.035         | 260         | FLOP      | 14              | S         | 0             |
| N352603                                    | 0.035         | 260         | STD       | 4               | A         | 45            |
| N352604                                    | 0.035         | 260         | INT       | 9               | S         | 0             |
| N353001                                    | 0.035         | 300         | INT       | 9               | S         | 0             |
| N354002                                    | 0.035         | 400         | INT       | 9               | S         | 0             |

<sup>†</sup>Torque devices included on 0.014" and 0.018" wire sizes.





# Support Catheters and Guide Catheters



TrailBlazer™  
Angled Support Catheter

# TrailBlazer™



## Support Catheter

The TrailBlazer catheter is an over-the-wire, single-lumen, seamless catheter with three embedded radiopaque markers, an atraumatic tapered tip, and a 40 cm hydrophilic distal tip coating. The TrailBlazer catheter is designed for high visibility, optimal wire support, and ease of lesion entry for difficult-to-cross lesions.

| Device identifier (5/package) | Guidewire compatibility | Working length (cm) | Minimum guide sheath (F) | Minimum introducer sheath (F) | Marker band spacing (mm) |
|-------------------------------|-------------------------|---------------------|--------------------------|-------------------------------|--------------------------|
| SC-014-135                    | 0.014                   | 135                 | 5                        | 4                             | 15                       |
| SC-014-150                    | 0.014                   | 150                 | 5                        | 4                             | 15                       |
| SC-018-090                    | 0.018                   | 90                  | 5                        | 4                             | 15                       |
| SC-018-135                    | 0.018                   | 135                 | 5                        | 4                             | 15                       |
| SC-018-150                    | 0.018                   | 150                 | 5                        | 4                             | 15                       |
| SC-035-065                    | 0.035                   | 65                  | 6                        | 5                             | 50                       |
| SC-035-090                    | 0.035                   | 90                  | 6                        | 5                             | 50                       |
| SC-035-135                    | 0.035                   | 135                 | 6                        | 5                             | 50                       |
| SC-035-150                    | 0.035                   | 150                 | 6                        | 5                             | 50                       |

# TrailBlazer™

## Angled Support Catheter

With an angled tip and braided shaft design, the TrailBlazer angled support catheter has exceptional pushability and directionality to reach and cross lesions.

| Device identifier (5/Package) | Guidewire compatibility | Working length (cm) | Minimum guide sheath (F) | Minimum introducer sheath (F) | Marker and spacing (mm) |
|-------------------------------|-------------------------|---------------------|--------------------------|-------------------------------|-------------------------|
| ASC-014-090                   | 0.014                   | 90                  | 5                        | 4                             | 15                      |
| ASC-014-135                   | 0.014                   | 135                 | 5                        | 4                             | 15                      |
| ASC-014-150                   | 0.014                   | 150                 | 5                        | 4                             | 15                      |
| ASC-018-090                   | 0.018                   | 90                  | 5                        | 4                             | 15                      |
| ASC-018-135                   | 0.018                   | 135                 | 5                        | 4                             | 15                      |
| ASC-018-150                   | 0.018                   | 150                 | 5                        | 4                             | 15                      |
| ASC-035-065                   | 0.035                   | 65                  | 5                        | 4                             | 50                      |
| ASC-035-090                   | 0.035                   | 90                  | 5                        | 4                             | 50                      |
| ASC-035-135                   | 0.035                   | 135                 | 5                        | 4                             | 50                      |
| ASC-035-150                   | 0.035                   | 150                 | 5                        | 4                             | 50                      |



The Launcher peripheral guide catheter is designed for multiple interventional approaches.

| Device identifier  | French size (F) | Length (cm) | Curve style |
|--------------------|-----------------|-------------|-------------|
| Renal Curve        |                 |             |             |
| LA6PK1W            | 6               | 47          | PK1         |
| LA7PK1W            | 7               | 47          | PK1         |
| LA8PK1W            | 8               | 47          | PK1         |
| Hockey Stick       |                 |             |             |
| LA6MPHK            | 6               | 55          | MPH         |
| LA7MPHK            | 7               | 55          | MPH         |
| LA8MPHK            | 8               | 55          | MPH         |
| Renal Double Curve |                 |             |             |
| LA6RDCK            | 6               | 55          | RDC         |
| LA7RDCK            | 7               | 55          | RDC         |
| LA8RDCK            | 8               | 55          | RDC         |
| Sheperd's Crook    |                 |             |             |
| LA6SCR40K          | 6               | 55          | SCR         |
| LA7SCR40K          | 7               | 55          | SCR         |
| LA8SCR40K          | 8               | 55          | SCR         |

| Device identifier | French size (F) | Length (cm) | Curve style |
|-------------------|-----------------|-------------|-------------|
| Multipurpose      |                 |             |             |
| LA6MP1K           | 6               | 55          | MP1         |
| LA7MP1K           | 7               | 55          | MP1         |
| LA8MP1K           | 8               | 55          | MP1         |
| Champ             |                 |             |             |
| LA6CHAMP15K       | 6               | 55          | Champ 1.5   |
| LA7CHAMP15K       | 7               | 55          | Champ 1.5   |
| LA8CHAMP15K       | 8               | 55          | Champ 1.5   |
| LA6CHAMP20K       | 6               | 55          | Champ 2.0   |
| LA7CHAMP20K       | 7               | 55          | Champ 2.0   |
| LA8CHAMP20K       | 8               | 55          | Champ 2.0   |
| LA6CHAMP25K       | 6               | 55          | Champ 2.5   |
| LA7CHAMP25K       | 7               | 55          | Champ 2.5   |
| LA8CHAMP25K       | 8               | 55          | Champ 2.5   |

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Important Information: Indications, contraindications, warnings, and instructions for use can be found in the product labeling supplied with each device.

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