



sergeant

Support catheter

iVascular[®]
therapies for living

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Support catheter general use

- A support catheter facilitates wire support during navigation. They have better torque and pushability than “normal” catheter or balloons.
- The support catheter adapts much better to the guidewire:

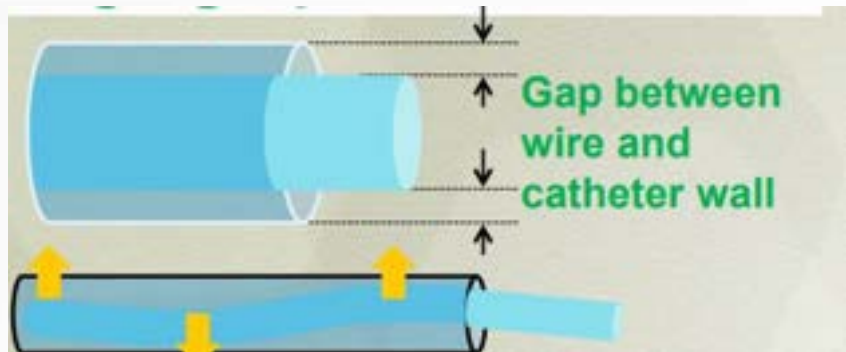


Fig. 1-“Normal” catheter

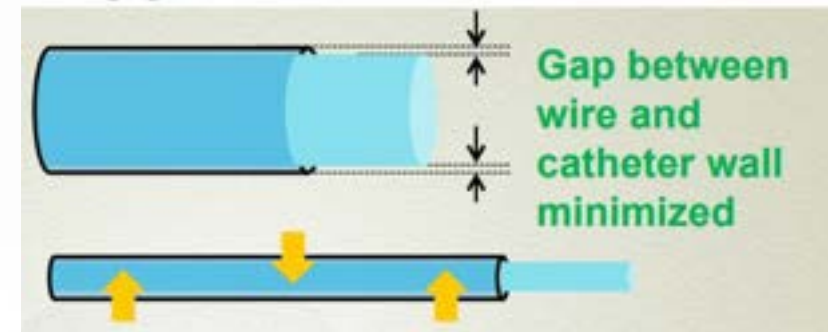


Fig. 2- Support catheter

- Support catheter are used when the guidewire doesn't have enough strength to cross and kinks: **Complex lesions.**
- The most common cases to use support catheter are:
 1. Distal lesions (BTK)
 2. Femoropopliteal occluded and complex lesions (TASC C&D)

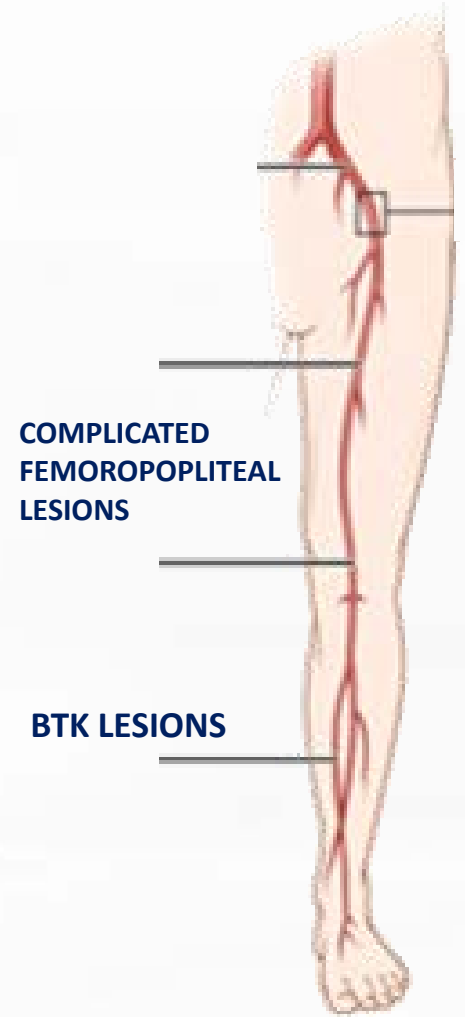
Indications

Indication for use

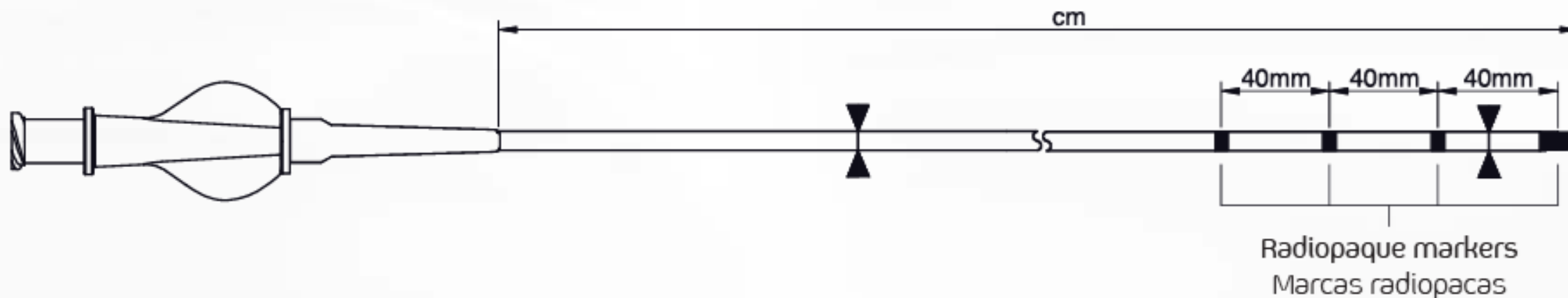
Indicated for patients with peripheral artery disease in **small vessel or challenging anatomy** during diagnostic and interventional procedures.

Intended use

Intended to facilitate, **guide and support a guidewire** during access into the peripheral vasculature, allow for **guidewire exchanges**, and/or provide a conduit for the **delivery of saline solutions and/or diagnostic contrast agents**.



Technical features

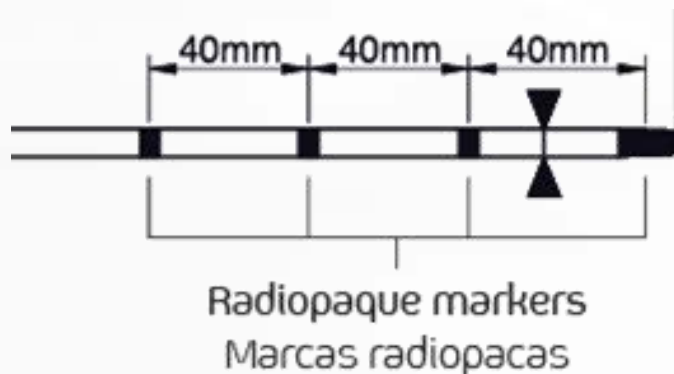


CATHETER

- Single lumen **catheter braided** from the proximal part to the distal part
- The distal catheter body is covered with its own durable **hydrophilic coating** (HYDRAX PLUS)
 - Tapered shaft design to **increase support**

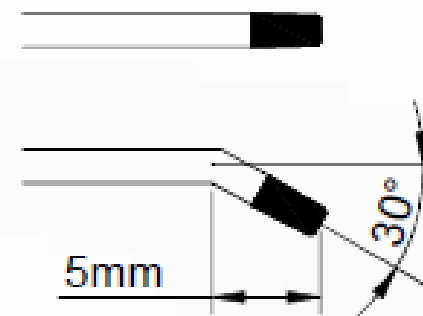
Technical features

RADIOPAQUE MARKERS



- **Radiopaque tip** of 5 mm
- From the tip and spaced 4 cm, **3 radiopaque markers** of 4 mm are arranged which help to estimate the length and geometry of the area of the artery to be treated
- Material: tungsten

TIP



- **Atraumatic design** to avoid damage to the arteries during the navigation
- The distal end can be straight or slightly angled (30°)

Variants

Guidewire	Usable catheter length (cm)				Distal end
	65	90	130	150	
0.014"	X	X	X	X	Straight
	X	X	X	X	Angled
0.018"	X	X	X	X	Straight
	X	X	X	X	Angled
0.035"	X	X	X	X	Straight
	X	X	X	X	Angled

Competitors landscape

- **Direct competitors: support catheters**

There are 10 support catheters in the market, braided and not braided.

- **Braided catheters:** offer more pushability. The best considered ones are the following, being CXI the one with better features



CXI



NaviCross



QuickCross



- **Not-braided catheters:** less push. The best considered ones are:



Rubicon



TrailBlazer



Seeker

- **Other products** to help arrive/ cross the lesion: **normal catheters, PTA balloons**

Products not designed for this use. They don't offer the support, torque and force of a support catheter.

Competitive advantages: direct competitors

Variable		Sergeant	CXI (Cook)	NaviCross (Terumo)	EliteCross (Cordis)	QuickCross (Philips)
Technical	Radiopaque markers	4	4	3	-	3
	Guidewire compatibility	0.014", 0.018", 0.035"	0.014", 0.018", 0.035"	0.035"	0.035"	0.014", 0.018", 0.035"
	Profiles	4F	4F	4F	4F and 5F	4F and 5F
	Pushability	Very high	High	Normal	Normal	Normal

Sources: Internal benchmark

Key competitor

VS CXI (Cook): similar features but improving....

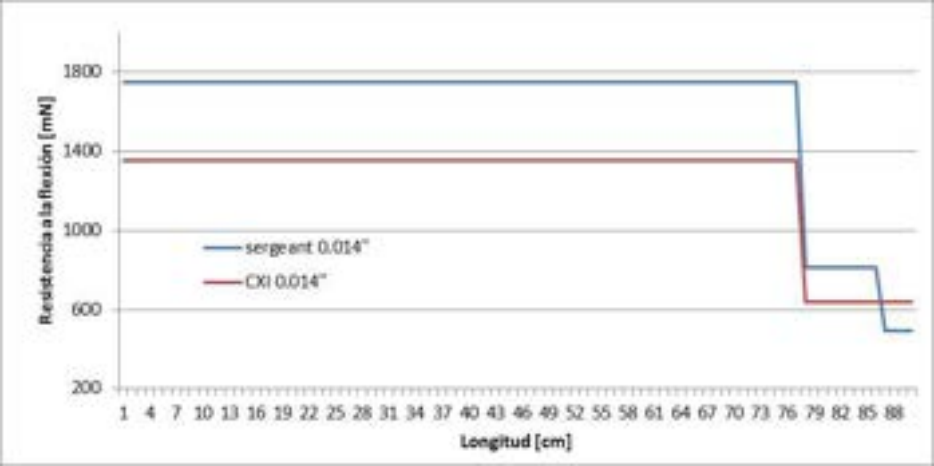
PRODUCT	COMPANY	BRAIDED	GUIDEWIRE COMPATIBILITY	CATHETER LENGTH (cm)	PROXIMAL PROFILE (F)	DISTAL PROFILE (F)	RADIOPAQUE MARKERS	TIP	INTRODUCER COMPATIBILITY (F)	HYDROPHILIC COATING
sergeant	iVascular	Yes	0.014"	65, 90, 130, 150	2.43F	2.19F	3 + tip	Straight and 30° angled	4F	Yes (Hydrax +)
			0.018"	65, 90, 130, 150	2.79F	2.46F				
			0.035"	65, 90, 130, 150	3.99F	3.84F				
CXI Support	Cook	Yes	0.014"	65, 90, 135, 150	2.25F	2.10F	3 + tip	Straight and angled	4F	Yes
			0.018"	65, 90, 135, 150	2.55F	2.46F				
			0.035"	90, 135, 150	3.96F	3.96F				

Key competitor

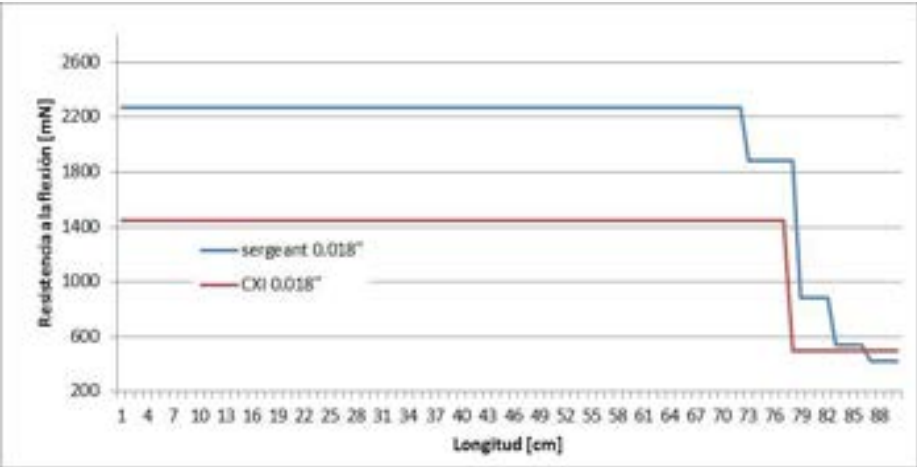
...pushability

Better pushability

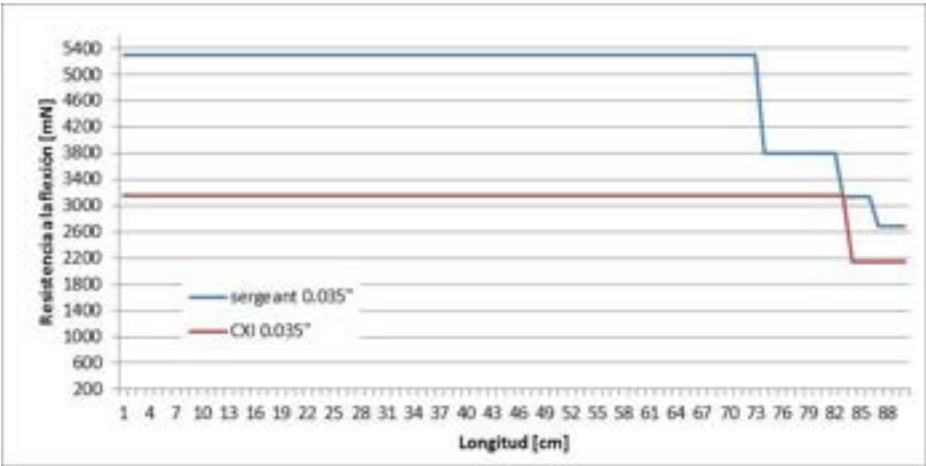
0.014"



0.018"



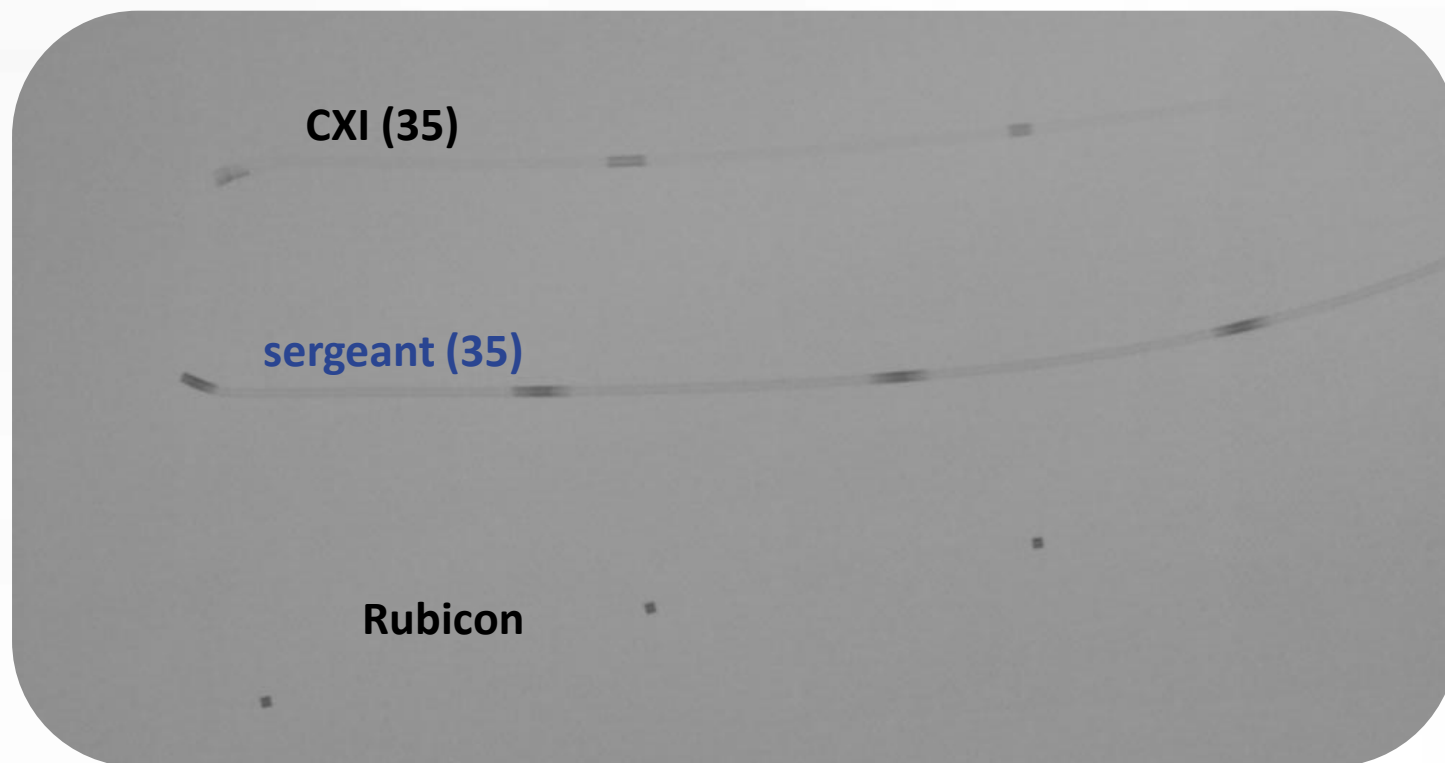
0.035"



Key competitor

... and having much **better visibility**

Perfect visibility



Competitors_ braided

PRODUCT	BRAIDED	GUIDEWIRE COMPATIBILITY	TIP	RADIOPAQUE MARKERS	CATHETER LENGTH (cm)	INTRODUCER COMPATIBILITY (F)	PROXIMAL PROFILE (F)	HYDROPHILIC COATING
sergeant (iVascular)	Yes	0.014", 0.018", 0.035"	Straight and 30° angled	3+tip	65, 90, 130, 150	4F	2.43F (0.014"), 2.79F (0.018"), 3.99F (0.035")	Yes (Hydrax Plus)
<u>NaviCross (Terumo)</u>	Yes	0.035"	Straight and 30° angled	3	65, 90, 135, 150	4F		Yes
<u>EliteCross (Cordis)</u>	Yes	0.035"	Straight and 20° angled	-	82, 132	5F	4.8F	Yes
<u>TrailBlazer (Medtronic)</u>	Only the angled	0.014", 0.018", 0.035"	Straight and 25-30° angled	3	65, 90, 135, 150	4F (0.014", 0.018"), 5F (0.035")	2.3F (0.014"), 2.6F (0.018"), 4.3F (0.035")	Yes
<u>QuickCross Select (Philips)</u>	Yes	0.014", 0.018", 0.035"	45° Angled	3	65, 90, 135, 150	4F (0.014", 0.018"), 5F (0.035")	2.97F (0.014"), 3.35F (0.018"), 4.8F (0.035")	Yes
<u>QuickCross Extreme (Philips)</u>	Yes	0.014", 0.018", 0.035"	Straight		65, 90, 135, 150		3.2F (0.014"), 3.35F (0.018"), 4.5F (0.035")	Yes
<u>Spex 14/18/35 (Reflow Medical)</u>	Only the proximal part	0.014", 0.018", 0.035"	Shapeable	-	50, 90, 135, 150	4F (0.014", 0.018"), 5F (0.035")	2.6F (0.014"), 2.9F (0.018"), 4.6F (0.035")	Yes

Competitors_ not braided

PRODUCT	BRAIDED	GUIDEWIRE COMPATIBILITY	TIP	RADIOPAQUE MARKERS	CATHETER LENGTH (cm)	INTRODUCER COMPATIBILITY (F)	PROXIMAL PROFILE (F)	HYDROPHILIC COATING
sergeant (iVascular)	Yes	0.014", 0.018", 0.035"	Straight and 30° angled	3+tip	65, 90, 130, 150	4F	2.43F (0.014"), 2.79F (0.018"), 3.99F (0.035")	Yes (Hydrax Plus)
<u>Rubicon (Boston Scientific)</u>	No	0.014", 0.018", 0.035"	Straight	3	65, 90, 135, 150	4F (0.014", 0.018"), 5F (0.035")		Yes
<u>Seeker (BD)</u>	No	0.014", 0.018", 0.035"	Straight	15 small markers (Platinum)	65, 90, 135, 150*	4F (0.014", 0.018"), 5F (0.035")	2.97F (0.014"), 3.43F (0.018"), 4.9F (0.035")	Yes
<u>TrailBlazer (Medtronic)</u>	Only the angled	0.014", 0.018", 0.035"	Straight and 25-30°angled	3	65, 90, 135, 150	4F (0.014", 0.018"), 5F (0.035")	2.3F (0.014"), 2.6F (0.018"), 4.3F (0.035")	Yes
<u>SureCross (Merit Medical Systems)</u>	No	0.014", 0.018", 0.035"	Straight	3 (platinum)	65, 90, 135, 150	4F (0.014", 0.018"), 5F (0.035")	-	Yes
<u>QuickCross (Philips)</u>	No	0.014", 0.018", 0.035"	Straight	3	65, 90, 135, 150	4F (0.014", 0.018"), 5F (0.035")	3.2F (0.014"), 3.35F (0.018"), 4.5F (0.035")	Yes

* Available lengths depending on the guidewire compatibility

Key messages

sergeant

the support catheter

To lead complex lesions procedures

1

Support to cross all lesions

- Braided catheter with exceptional pushability and torque capacity
- Wide portfolio: 0.014", 0.018" and 0.035" guidewire compatibility

2

Perfect visibility

The 4 radiopaque markers assess accurately:

- Catheter position
- Lesion length

3

Able to go through tortuous anatomy

- HYDRAX +, proprietary hydrophilic coating that increases the catheter trackability
- Small profiles, all portfolio has 4Fr introducer compatibility

Case reports

with sergeant

Case report: sergeant 0.014"

- **Dr Sirvent case (Spain)**

Date: 15/05/2020

Product used: sergeant 0.014" 150cm straight

Case information: Occlusion in plantar artery, using contralateral access. A 4F Destination introducer and a Advantage 14 guidewire were used.

Remarkable points:
Profiles and navigation

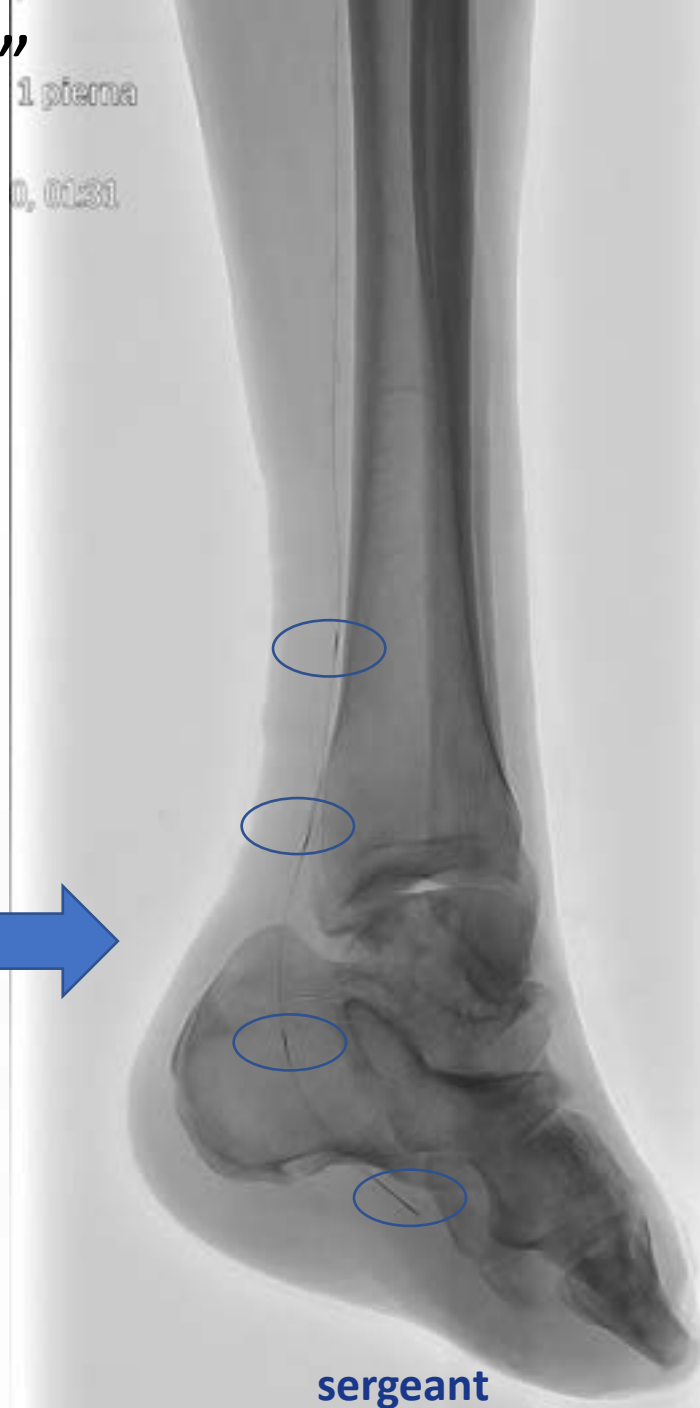
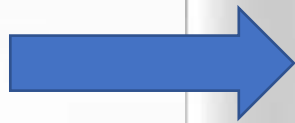
Mark:
5/5

"Very good / excellent catheter. It easily crossed the occlusion on the plantar arch. The first feeling has been very good."

Case report: sergeant 0.014"

- Dr Sirvent case (Spain)

All the catheter and the 4
radiopaque markers are perfectly
seen



sergeant



After procedure

Case report: sergeant 0.018"

- **Dr Schutz case (Luxembourg)**

Date: 01/07/2020

Product used: sergeant 0.018" 130cm angled

Case information: SFA lesion in a Supera stent, using ipsilateral access. A 6F Terumo introducer and a Command 0.018" guidewire were used

Remarkable points:
Crossability

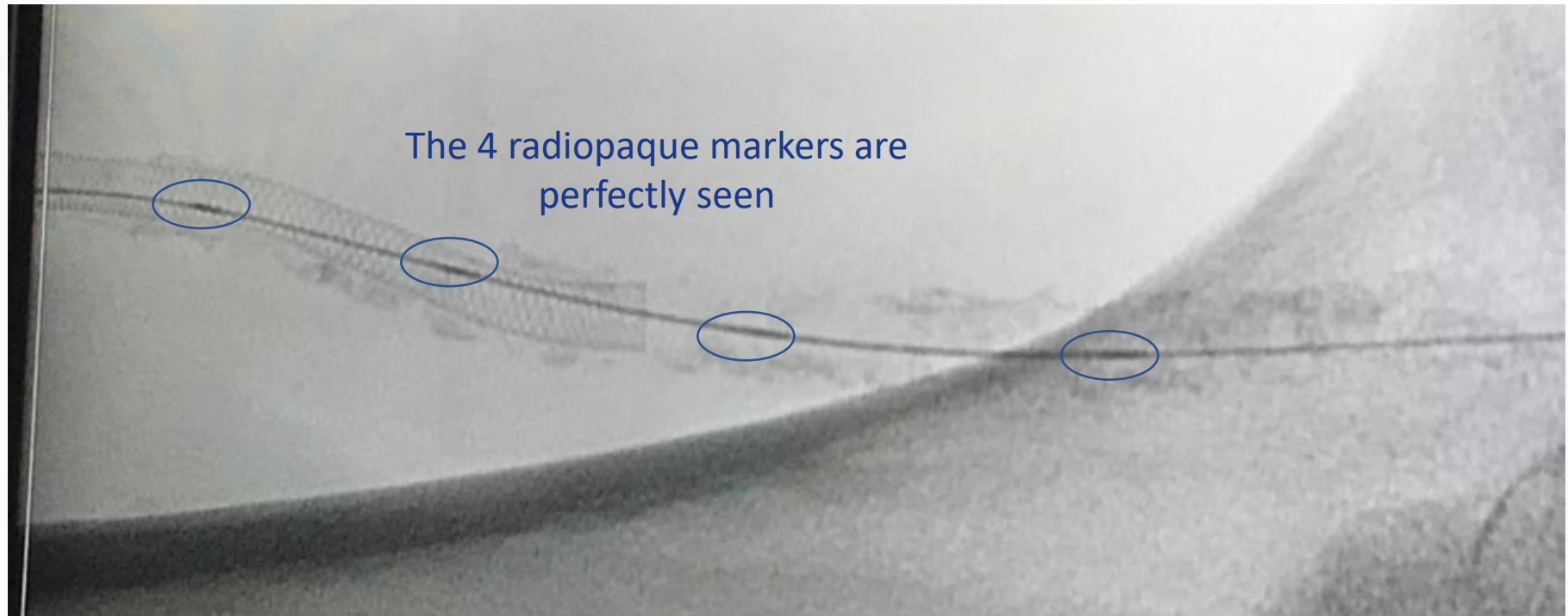
"Excellent lesion passage"
Would use it in the daily practice

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Case report: sergeant 0.018"

- Dr Schutz case (Luxembourg)



Case report: sergeant 0.035"

- **Dr Lacquet case (Belgium)**

Date: 02/07/2020

Product used: sergeant 0.035" 90cm straight

Case information: complete occlusion in SFA, with ipsilateral access. 6F introducer and 0.035" Terumo guidewire were used.

Mark:

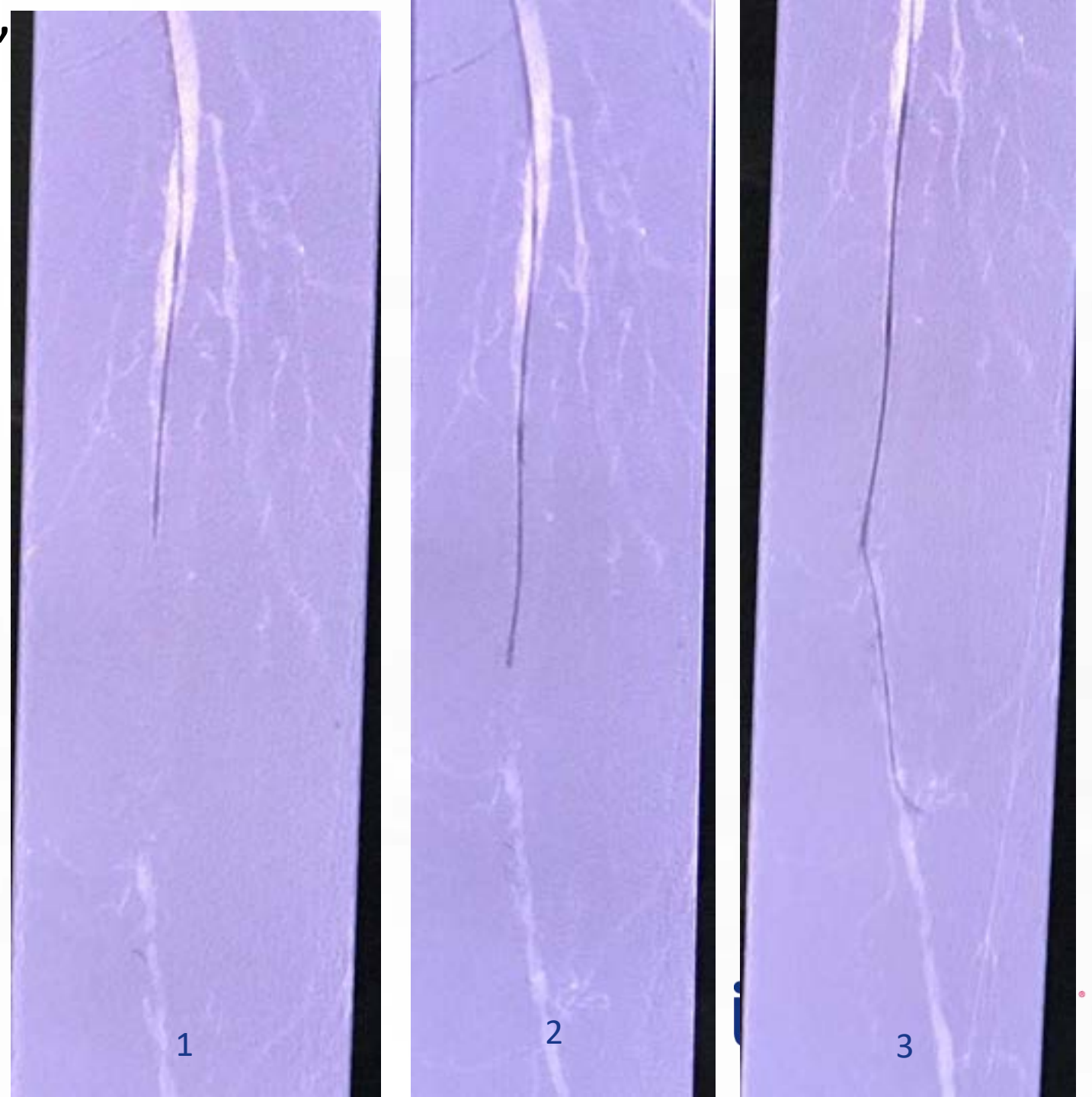
4.5/5

Would use it in the daily practice

Case report: sergeant 0.035"

- **Dr Lacquet case (Belgium)**

The images show how sergeant
could pass through a complete
occlusion



Thank you

capturer 6F & 7F

Thrombus extraction catheter

PTFE inner layer

specifically designed to
minimize friction and
assure fast thrombus
removal

Innovative tip

guarantees
aspiration power in
all circumstances

HYDRAX



Durable hydrophilic coating
for sustainable performance
and full control



Quick access

Flat-wire braiding
Stiffening mandrel
Hydrophilic coating throughout the entire device

Increased pushability without kinking to cope with the most tortuous anatomy

Forceful

- Superior extraction capability:
0.99 mm² (6F) - 1.39 mm² (7F)
- **PTFE inner layer** specially designed to minimize friction and assure fast thrombus removal
- **Wire mesh** through the catheter to avoid collapsing during aspiration

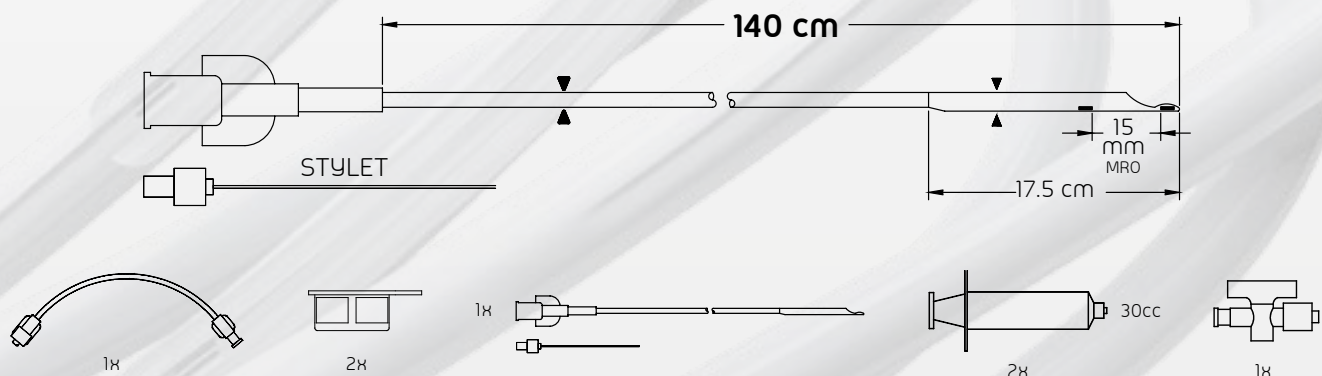
Secure

- **2 radiopaque markers** ensure accurate positioning at all times

Capturer features

- > Rapid exchange length: **17.5 cm**
- > Usable length: **140 cm**
- > Entry profile: **0.021" (6F) - 0.025" (7F)**

- > Guiding catheter compatibility **6F & 7F**
- > Guidewire compatibility: **0.014"**
- > **RO** markers



CE Mark certified product

References

Capturer 6F	DET R14 145 601
Capturer 7F	DET R14 145 701

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Manufactured by:

LVD Biotech, S.L.
www.ivascular.global
info@ivascular.global

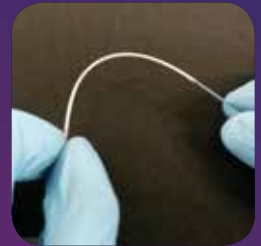


luminor 18

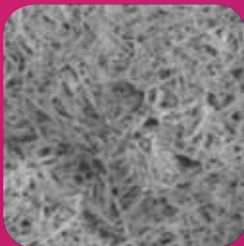
Paclitaxel eluting balloon

Safe and precise
delivery of
Paclitaxel

Homogeneous
& **anti-cracking**
coating



Nanotechnology
dosage system.
Ultra-thin coating



TransferTech



Assured coating
stability during
navigation

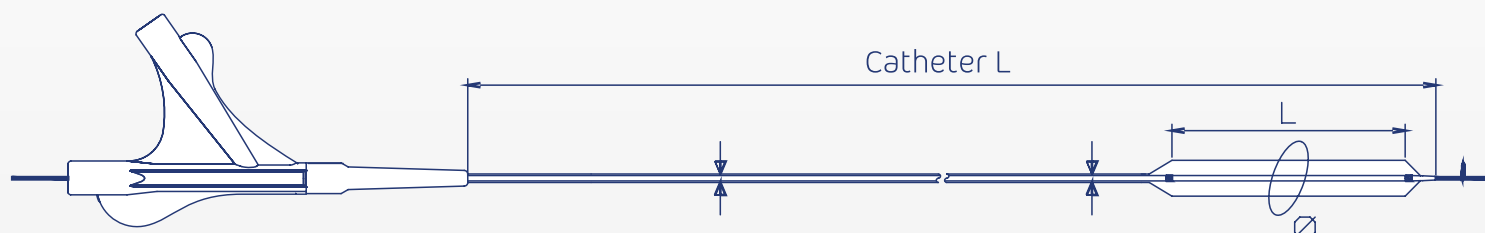
Proprietary coating
technology **Transfertech**

www.ivascular.global

General features

iVascular
therapies for living

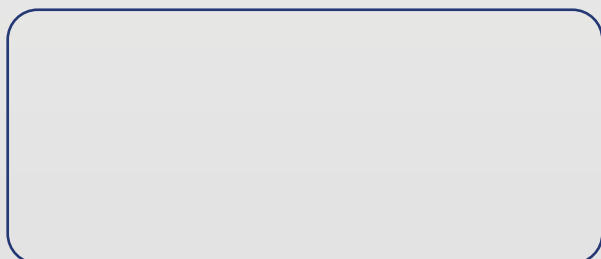
- > **Over-the-wire catheter (OTW)**
- > Usable catheter length: **100 cm, 140 cm or 150 cm**
- > Recommended guidewire: **0.018"** (0.014" compatible)
- > Tip profile: **0.019"**
- > Crossing profile: **from 0.035" up to 0.063"**
- > RBP: **16-14 atm** (for diameter 8 mm), ABP: **20 atm**



Usable catheter length	Ø mm	Balloon Length (mm)							
		20	40	60	80	120	150	200	
100 cm	2.0	BP DPC18 100 200 020	BP DPC18 100 200 040	BP DPC18 100 200 060	BP DPC18 100 200 080	BP DPC18 100 200 120	BP DPC18 100 200 150	BP DPC18 100 200 200	
	2.5	BP DPC18 100 250 020	BP DPC18 100 250 040	BP DPC18 100 250 060	BP DPC18 100 250 080	BP DPC18 100 250 120	BP DPC18 100 250 150	BP DPC18 100 250 200	
	3.0	BP DPC18 100 300 020	BP DPC18 100 300 040	BP DPC18 100 300 060	BP DPC18 100 300 080	BP DPC18 100 300 120	BP DPC18 100 300 150	BP DPC18 100 300 200	
	3.5	BP DPC18 100 350 020	BP DPC18 100 350 040	BP DPC18 100 350 060	BP DPC18 100 350 080	BP DPC18 100 350 120	BP DPC18 100 350 150	BP DPC18 100 350 200	
	4.0	BP DPC18 100 400 020	BP DPC18 100 400 040	BP DPC18 100 400 060	BP DPC18 100 400 080	BP DPC18 100 400 120	BP DPC18 100 400 150	BP DPC18 100 400 200	
	5.0	BP DPC18 100 500 020	BP DPC18 100 500 040	BP DPC18 100 500 060	BP DPC18 100 500 080	BP DPC18 100 500 120	BP DPC18 100 500 150	BP DPC18 100 500 200	
	6.0	BP DPC18 100 600 020	BP DPC18 100 600 040	BP DPC18 100 600 060	BP DPC18 100 600 080	BP DPC18 100 600 120	BP DPC18 100 600 150	BP DPC18 100 600 200	
	7.0	BP DPC18 100 700 020	BP DPC18 100 700 040	BP DPC18 100 700 060	BP DPC18 100 700 080	BP DPC18 100 700 120	-	-	
140 cm	8.0	BP DPC18 100 800 020	BP DPC18 100 800 040	BP DPC18 100 800 060	BP DPC18 100 800 080	-	-	-	
	5.0	BP DPC18 140 500 020	BP DPC18 140 500 040	BP DPC18 140 500 060	BP DPC18 140 500 080	BP DPC18 140 500 120	BP DPC18 140 500 150	BP DPC18 140 500 200	
	6.0	BP DPC18 140 600 020	BP DPC18 140 600 040	BP DPC18 140 600 060	BP DPC18 140 600 080	BP DPC18 140 600 120	BP DPC18 140 600 150	BP DPC18 140 600 200	
	7.0	BP DPC18 140 700 020	BP DPC18 140 700 040	BP DPC18 140 700 060	BP DPC18 140 700 080	BP DPC18 140 700 120	-	-	
150 cm	8.0	BP DPC18 140 800 020	BP DPC18 140 800 040	BP DPC18 140 800 060	BP DPC18 140 800 080	-	-	-	
	2.0	BP DPC18 150 200 020	BP DPC18 150 200 040	BP DPC18 150 200 060	BP DPC18 150 200 080	BP DPC18 150 200 120	BP DPC18 150 200 150	BP DPC18 150 200 200	
	2.5	BP DPC18 150 250 020	BP DPC18 150 250 040	BP DPC18 150 250 060	BP DPC18 150 250 080	BP DPC18 150 250 120	BP DPC18 150 250 150	BP DPC18 150 250 200	
	3.0	BP DPC18 150 300 020	BP DPC18 150 300 040	BP DPC18 150 300 060	BP DPC18 150 300 080	BP DPC18 150 300 120	BP DPC18 150 300 150	BP DPC18 150 300 200	
	3.5	BP DPC18 150 350 020	BP DPC18 150 350 040	BP DPC18 150 350 060	BP DPC18 150 350 080	BP DPC18 150 350 120	BP DPC18 150 350 150	BP DPC18 150 350 200	
	4.0	BP DPC18 150 400 020	BP DPC18 150 400 040	BP DPC18 150 400 060	BP DPC18 150 400 080	BP DPC18 150 400 120	BP DPC18 150 400 150	BP DPC18 150 400 200	

● Introducer compatibility: **4F** ● Introducer compatibility: **5F**

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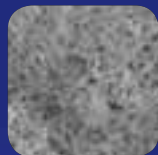
luminor 14m

Paclitaxel eluting PTA balloon dilatation catheter

Safe and **precise**
delivery of Paclitaxel

LUMINOR Registry
207 patients

Nanotechnology
dosage system.
Ultra-thin coating



Assured coating
stability during
navigation

TransferTech



Proprietary coating
technology **TransferTech**



Homogeneous
& **anti-cracking** coating



luminor 14m features

- > **Over-the-wire catheter (OTW)**
- > Usable catheter length: **100 cm** and **150 cm**
- > Recommended guidewire: **0.014"**
- > Tip profile: **0.017"**
- > Crossing profile: **from 0.026" up to 0.042"**
- > Nominal pressure: **7 atm**
- > RBP: **16 atm**
- > ABP: **22 atm**

Product with CE mark, certified by Notified Body 0318

Usable catheter length	Balloon Ø (mm)	Balloon Length (mm)					
		40	60	80	120	150	200
100 cm	1.5	BP DPC14M 100 150 040	BP DPC14M 100 150 060	BP DPC14M 100 150 080	-	-	-
	2.0	BP DPC14M 100 200 040	BP DPC14M 100 200 060	BP DPC14M 100 200 080	BP DPC14M 100 200 120	BP DPC14M 100 200 150	BP DPC14M 100 200 200
	2.5	BP DPC14M 100 250 040	BP DPC14M 100 250 060	BP DPC14M 100 250 080	BP DPC14M 100 250 120	BP DPC14M 100 250 150	BP DPC14M 100 250 200
	3.0	BP DPC14M 100 300 040	BP DPC14M 100 300 060	BP DPC14M 100 300 080	BP DPC14M 100 300 120	BP DPC14M 100 300 150	BP DPC14M 100 300 200
	3.5	BP DPC14M 100 350 040	BP DPC14M 100 350 060	BP DPC14M 100 350 080	BP DPC14M 100 350 120	BP DPC14M 100 350 150	BP DPC14M 100 350 200
	4.0	BP DPC14M 100 400 040	BP DPC14M 100 400 060	BP DPC14M 100 400 080	BP DPC14M 100 400 120	-	-
150 cm	1.5	BP DPC14M 150 150 040	BP DPC14M 150 150 060	BP DPC14M 150 150 080	-	-	-
	2.0	BP DPC14M 150 200 040	BP DPC14M 150 200 060	BP DPC14M 150 200 080	BP DPC14M 150 200 120	BP DPC14M 150 200 150	BP DPC14M 150 200 200
	2.5	BP DPC14M 150 250 040	BP DPC14M 150 250 060	BP DPC14M 150 250 080	BP DPC14M 150 250 120	BP DPC14M 150 250 150	BP DPC14M 150 250 200
	3.0	BP DPC14M 150 300 040	BP DPC14M 150 300 060	BP DPC14M 150 300 080	BP DPC14M 150 300 120	BP DPC14M 150 300 150	BP DPC14M 150 300 200
	3.5	BP DPC14M 150 350 040	BP DPC14M 150 350 060	BP DPC14M 150 350 080	BP DPC14M 150 350 120	BP DPC14M 150 350 150	BP DPC14M 150 350 200
	4.0	BP DPC14M 150 400 040	BP DPC14M 150 400 060	BP DPC14M 150 400 080	BP DPC14M 150 400 120	-	-

● Introducer compatibility: **4F**

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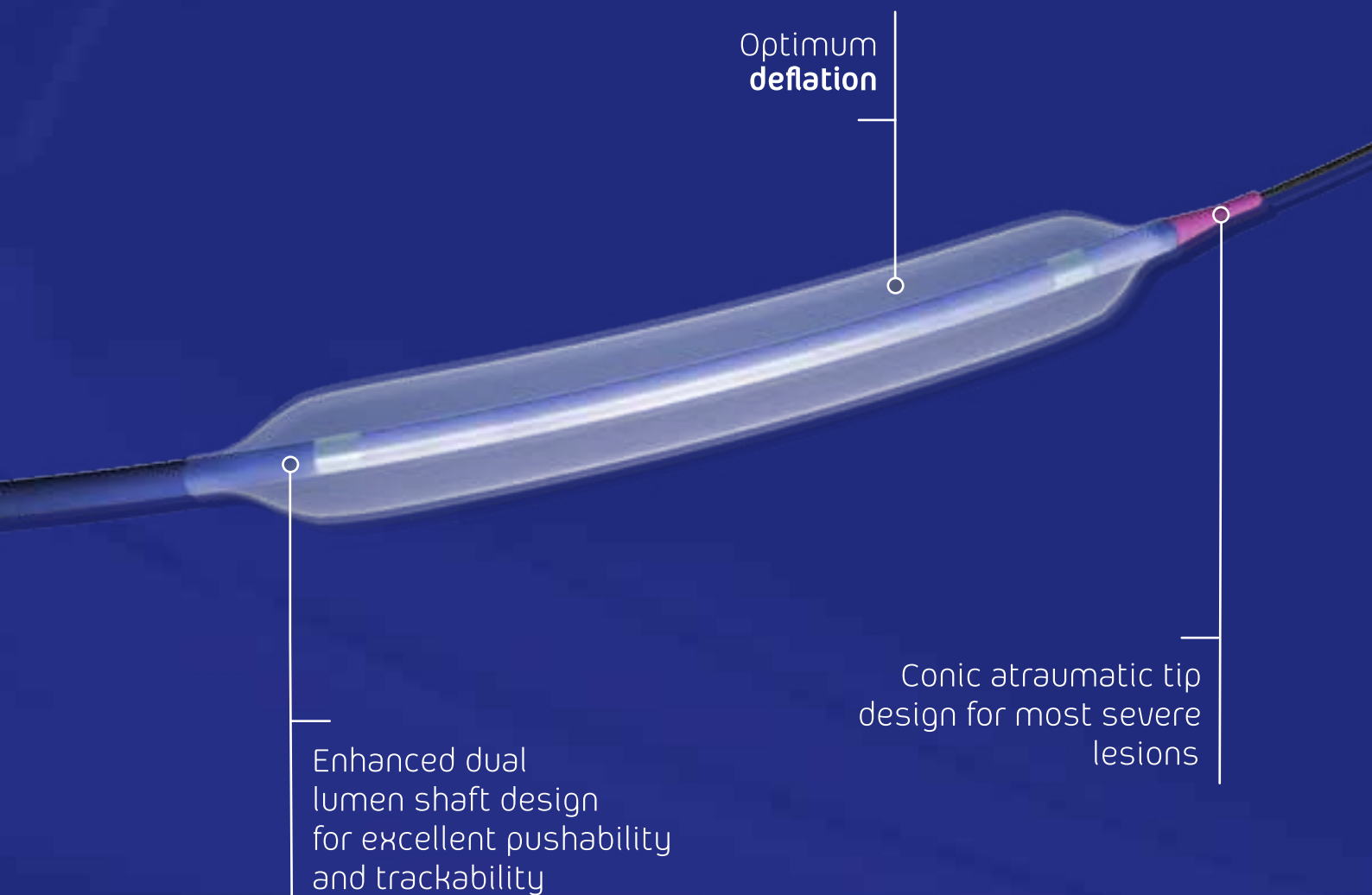
iVascular[®]

therapies for living

oceanus 35

PTA balloon dilatation catheter

Reach & dilate



www.ivascular.global

oceanus 35 features

- > Over the wire catheter (OTW)
- > Usable Catheter length: **80 cm, 140 cm & 200 cm**
- > Guidewire compatibility: **0.035"**
- > Tip Profile: **0.036"**
- > Crossing profile: from **0.057"** up to **0.083"**

Product with CE mark, certified by Notified Body 0318

OCEANUS 35 Compliance Data

Balloon Diameter (mm)	3mm	4mm	5mm	6mm	7mm	8mm	9mm	10mm	12mm
Nominal Pressure (atm)	7	7	7	6	7	7	6	6	6
Rated Burst Pressure (RBP) (atm)	16*	16	16	16	16	15	14	13	13
Average Burst Pressure (ABP) (atm)	24	24	23	23	23	21	20	20	19

*20 atm: 3mm - L ≤ 60mm

Usable catheter length	Balloon Ø (mm)	Balloon Length (mm)						
		20	40	60	80	120	150	200
80 cm	3	BP PC35 080 300 020	BP PC35 080 300 040	BP PC35 080 300 060	BP PC35 080 300 080	BP PC35 080 300 120	BP PC35 080 300 150	BP PC35 080 300 200
	4	BP PC35 080 400 020	BP PC35 080 400 040	BP PC35 080 400 060	BP PC35 080 400 080	BP PC35 080 400 120	BP PC35 080 400 150	BP PC35 080 400 200
	5	BP PC35 080 500 020	BP PC35 080 500 040	BP PC35 080 500 060	BP PC35 080 500 080	BP PC35 080 500 120	BP PC35 080 500 150	BP PC35 080 500 200
	6	BP PC35 080 600 020	BP PC35 080 600 040	BP PC35 080 600 060	BP PC35 080 600 080	BP PC35 080 600 120	BP PC35 080 600 150	BP PC35 080 600 200
	7	BP PC35 080 700 020	BP PC35 080 700 040	BP PC35 080 700 060	BP PC35 080 700 080	BP PC35 080 700 120	-	-
	8	BP PC35 080 800 020	BP PC35 080 800 040	BP PC35 080 800 060	BP PC35 080 800 080	-	-	-
	9	BP PC35 080 900 020	BP PC35 080 900 040	BP PC35 080 900 060	BP PC35 080 900 080	-	-	-
	10	BP PC35 080 100 020	BP PC35 080 100 040	BP PC35 080 100 060	-	-	-	-
	12	BP PC35 080 120 020	BP PC35 080 120 040	BP PC35 080 120 060	-	-	-	-
140 cm	3	BP PC35 140 300 020	BP PC35 140 300 040	BP PC35 140 300 060	BP PC35 140 300 080	BP PC35 140 300 120	BP PC35 140 300 150	BP PC35 140 300 200
	4	BP PC35 140 400 020	BP PC35 140 400 040	BP PC35 140 400 060	BP PC35 140 400 080	BP PC35 140 400 120	BP PC35 140 400 150	BP PC35 140 400 200
	5	BP PC35 140 500 020	BP PC35 140 500 040	BP PC35 140 500 060	BP PC35 140 500 080	BP PC35 140 500 120	BP PC35 140 500 150	BP PC35 140 500 200
	6	BP PC35 140 600 020	BP PC35 140 600 040	BP PC35 140 600 060	BP PC35 140 600 080	BP PC35 140 600 120	BP PC35 140 600 150	BP PC35 140 600 200
	7	BP PC35 140 700 020	BP PC35 140 700 040	BP PC35 140 700 060	BP PC35 140 700 080	BP PC35 140 700 120	-	-
	8	BP PC35 140 800 020	BP PC35 140 800 040	BP PC35 140 800 060	BP PC35 140 800 080	-	-	-
	9	BP PC35 140 900 020	BP PC35 140 900 040	BP PC35 140 900 060	BP PC35 140 900 080	-	-	-
	10	BP PC35 140 100 020	BP PC35 140 100 040	BP PC35 140 100 060	-	-	-	-
	12	BP PC35 140 120 020	BP PC35 140 120 040	BP PC35 140 120 060	-	-	-	-
NEW 200 cm	3	-	-	-	-	-	-	-
	4	-	-	-	-	-	-	-
	5	-	-	-	-	-	-	-
	6	BP PC35 200 600 020	-	-	-	-	-	-
	7	BP PC35 200 700 020	-	-	-	-	-	-
	8	BP PC35 200 800 020	-	-	-	-	-	-
	9	BP PC35 200 900 020	-	-	-	-	-	-
	10	BP PC35 200 100 020	-	-	-	-	-	-
	12	BP PC35 200 120 020	-	-	-	-	-	-

● Introducer compatibility: **5F** ● Introducer compatibility: **6F**

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iCover

Peripheral balloon expandable
PTFE covered stent system

**Designed to
cover all needs**



www.ivascular.global

iVascular[®]
therapies for living

Able to treat the most tortuous arteries

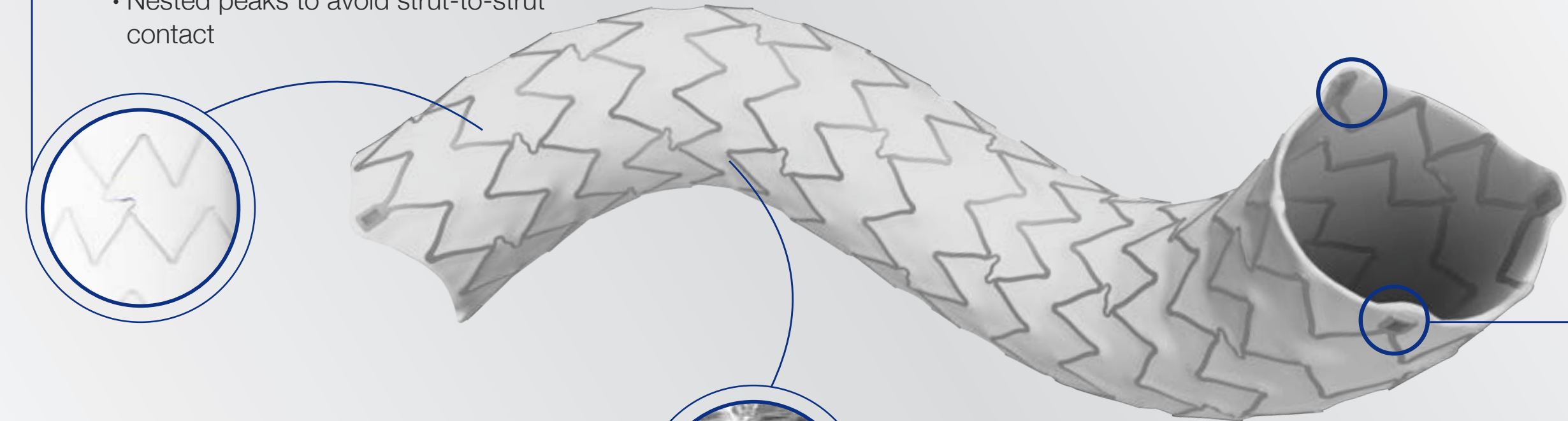
iCover
Designed to cover all needs

Enhanced visibility

Unique stent with radiopaque markers to facilitate the implantation and the post-dilation

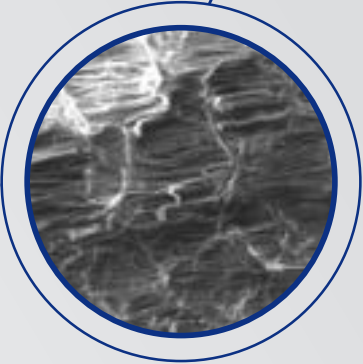
ePTFE covered stent with high flexibility

- Due to:
- Open cell design and alternated links
 - Nested peaks to avoid strut-to-strut contact



Best in class post-expansion capacity (≥2mm)

High ePTFE porosity to ensure covered stent post-expansion capacity



MAXIMUM POST-EXPANSION DIAMETERS							
STENT DIMENSIONS		STENT DIAMETERS (mm)					
		5	6	7	8	9	10
STENT LENGHT (mm)	17	≤10mm			≤12mm		
	27						
	37						
	57						

Excellent navigability and easy to implant

iCover
Designed to cover all needs

Outstanding flexibility
of the crimped stent, avoiding the
kinking during navigation

Small profiles:
6F introducer compatibility up to 8mm*

- **Crimped on an Oceanus 35 PTA balloon, offering:**
 - Short deflation times
 - Good pushability and trackability

INTRODUCER COMPATIBILITIES							
STENT DIMENSIONS		STENT DIAMETERS (mm)					
		5	6	7	8	9	10
STENT LENGHT (mm)	17	6F			7F		
	27						
	37						
	57						

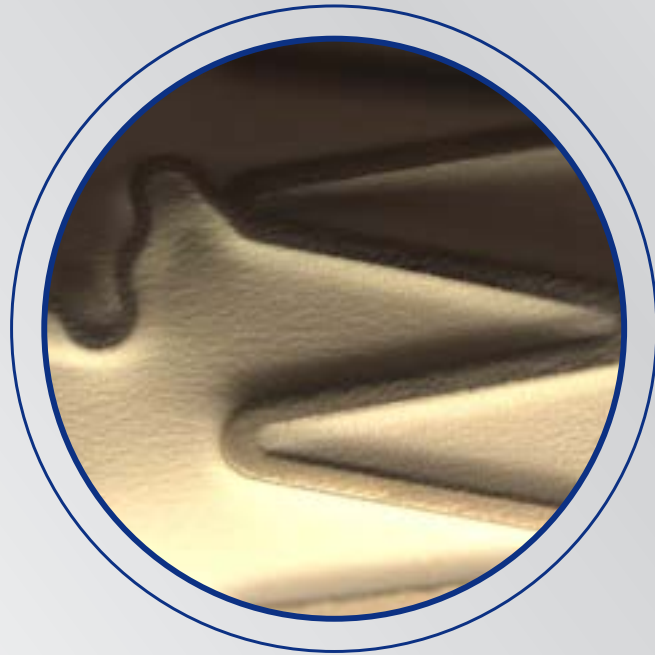
* 6F up to 8x17 mm and 7F from 8x27mm up to 10 mm.

iVascular proprietary encapsulation technology

iCover
Designed to cover all needs



Specific ePTFE laser cutting technology



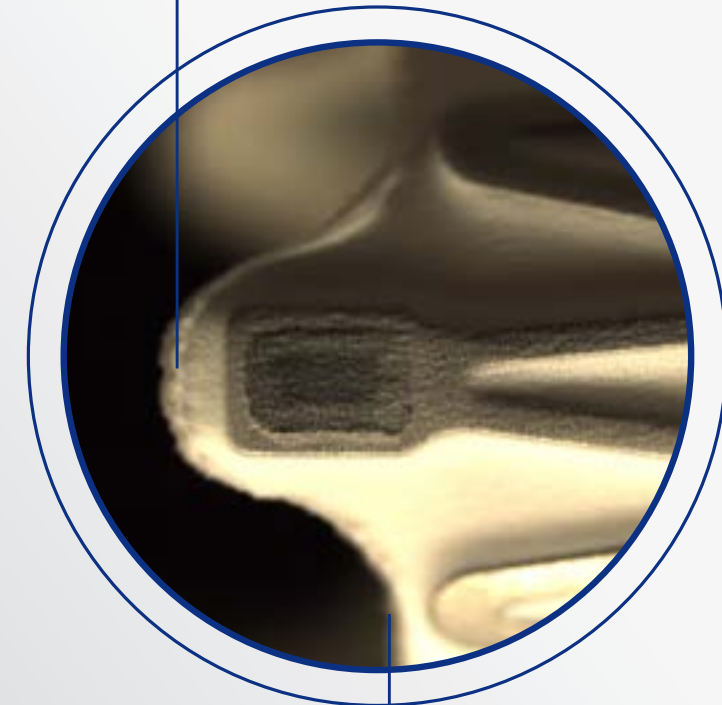
Encapsulation technology

iCover is a stent completely encapsulated with 2 ePTFE layers



Proprietary technology to encapsulate the stent into an inner and outer ePTFE layer

Ensures complete encapsulation avoiding delamination



• **Perfect sealing**

The laser follows the stent outline while cutting the contour

iCover features

- > Over the wire catheter (OTW)
- > Guidewire compatibility: **0.035"**
- > Catheter length: **80** and **140** cm
- > NP: 9 atm
- > RBP:
 - Ø 5-7mm: 15 atm
 - Ø 8mm: 14 atm
 - Ø 9-10mm: 13 atm
- > Maximum post-expansion:
 - Ø 5-8mm: ≤10mm
 - Ø 9-10mm: ≤ 12mm
- > CoverTech encapsulation technology
- > Introducer compatibility
6F (up to Ø8mm, L 17mm), **7F** (≥8mmØ, L27mm)
- > **3 radiopaque markers** at each stent end
- > Stent material: CoCr L605
- > Graft material: ePTFE
- > Recoil: ≤ 10 %
- > Shortening:
 - Length 17mm: ≤ 12 %
 - Length 57mm: ≤ 8 %

Product with CE mark, certified by Notified Body 0318

Effective catheter length (cm)	Stent diameter (mm)	Stent length (mm)			
		17	27	37	57
80	5	SPCBCC35080050017	SPCBCC35080050027	SPCBCC35080050037	SPCBCC35080050057
	6	SPCBCC35080060017	SPCBCC35080060027	SPCBCC35080060037	SPCBCC35080060057
	7	SPCBCC35080070017	SPCBCC35080070027	SPCBCC35080070037	SPCBCC35080070057
	8	SPCBCC35080080017	SPCBCC35080080027	SPCBCC35080080037	SPCBCC35080080057
	9		SPCBCC35080090027	SPCBCC35080090037	SPCBCC35080090057
	10		SPCBCC35080100027	SPCBCC35080100037	SPCBCC35080100057
140	5	SPCBCC35140050017	SPCBCC35140050027	SPCBCC35140050037	SPCBCC35140050057
	6	SPCBCC35140060017	SPCBCC35140060027	SPCBCC35140060037	SPCBCC35140060057
	7	SPCBCC35140070017	SPCBCC35140070027	SPCBCC35140070037	SPCBCC35140070057
	8	SPCBCC35140080017	SPCBCC35140080027	SPCBCC35140080037	SPCBCC35140080057
	9		SPCBCC35140090027	SPCBCC35140090037	SPCBCC35140090057
	10		SPCBCC35140100027	SPCBCC35140100037	SPCBCC35140100057

● Introducer compatibility: **6F** ● Introducer compatibility: **7F**

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iVascular[®]
therapies for living

restorer

Peripheral stent system



Reach, cross
and deploy



www.ivascular.global



outstanding deliverability

Based on the successful oceanus 35 balloon platform, **restorer** delivers 1st class performance with:

High pushability

Fastest balloon deflation

Enhanced trackability due to **restorer**'s unique, flexible strut design featuring:

Short cells with nested peaks

Helicoidal linkage system

The low profile design of **restorer** ensures increased crossability in difficult lesions.



Lower Restenosis

Utilizing an advanced manufacturing process, **restorer** is designed to minimize the potential for restenosis.

Optimized metal content for maximum performance.

Ultrasmooth electropolished surface.

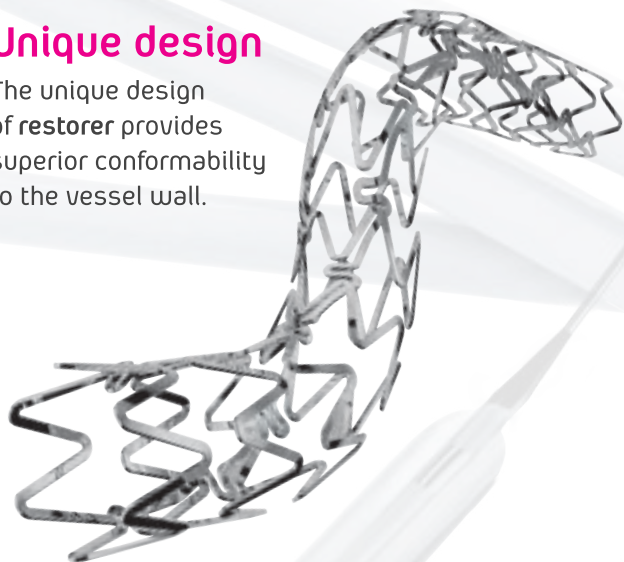
NanoGradient Tech passivation layer for enhanced corrosion resistance and biocompatibility.

restorer - Peripheral stent system

extraordinary radial force with less amount of metal

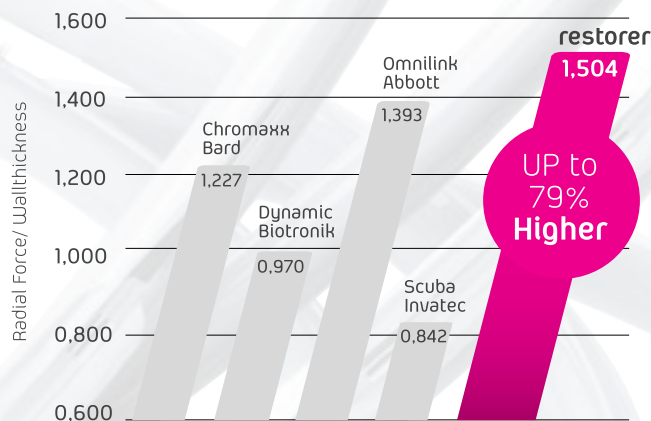
Unique design

The unique design of **restorer** provides superior conformability to the vessel wall.



restorer demonstrates excellent vessel support

Ratio Radial Force / Wallthickness

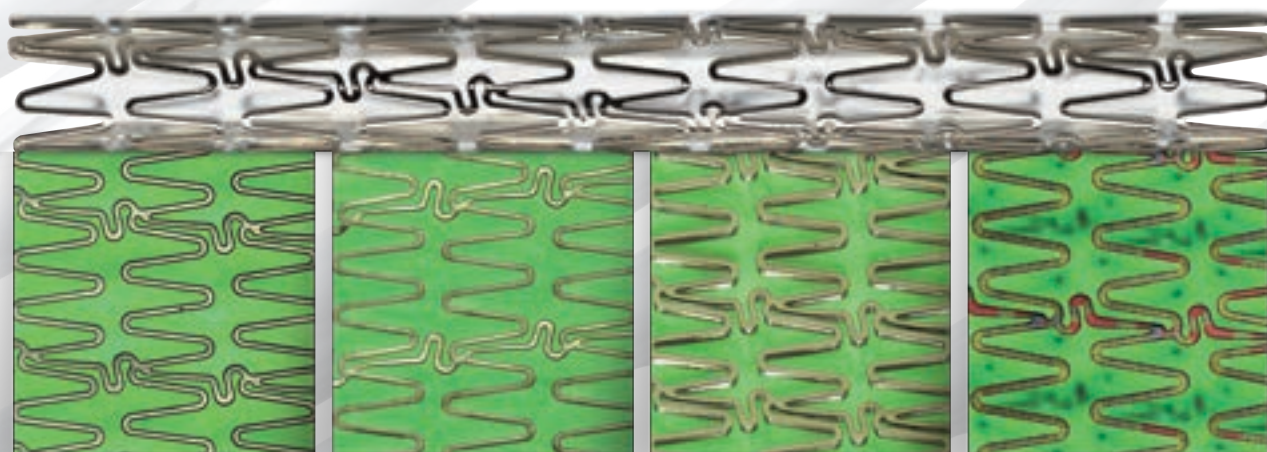


Data for 6mm diameter stents. Tests performed by iVascular. Data on file at iVascular.



New stent quality standard

100% OF **UNITS** | 100% OF **SURFACE**



Outer surface

Inner surface

Sidewalls

SensoINSPECT algorithm

Imaging



Screenshot



Unrolled FOV



Unrolled section

3D Modes



Surface topography



Surface roughness

5x

10x

20x



High-resolution imaging

restorer - Peripheral stent system

restorer features

- > **Over the wire catheter** (OTW)
- > Usable catheter length: **80 cm & 140 cm**
- > Guidewire compatibility: **0,035"**
- > **Tip Profile: 0,036"**
- > **6F introducer** compatible
- > Material **CoCr L605**
- > Nominal pressure: **10-12 atm**
- > RBP: **16 atm** (Ø 5-6-7 mm stents)
15 atm (Ø 8 mm stents)
14 atm (Ø 9-10 mm stents)
- > Recoil: < **6%**
- > Shortening: < **3%**

Product with CE mark, certified by Notified Body 0318

Stent diameter (mm)	Catheter length: 80 cm			
	Stent length (mm)			
	18	28	38	58
5	SPC BC35 080 050 018	SPC BC35 080 050 028	SPC BC35 080 050 038	SPC BC35 080 050 058
6	SPC BC35 080 060 018	SPC BC35 080 060 028	SPC BC35 080 060 038	SPC BC35 080 060 058
7	SPC BC35 080 070 018	SPC BC35 080 070 028	SPC BC35 080 070 038	SPC BC35 080 070 058
8	SPC BC35 080 080 018	SPC BC35 080 080 028	SPC BC35 080 080 038	SPC BC35 080 080 058
9	SPC BC35 080 090 018	SPC BC35 080 090 028	SPC BC35 080 090 038	SPC BC35 080 090 058
10	SPC BC35 080 100 018	SPC BC35 080 100 028	SPC BC35 080 100 038	SPC BC35 080 100 058

Stent diameter (mm)	Catheter length: 140 cm			
	Stent length (mm)			
	18	28	38	58
5	SPC BC35 140 050 018	SPC BC35 140 050 028	SPC BC35 140 050 038	SPC BC35 140 050 058
6	SPC BC35 140 060 018	SPC BC35 140 060 028	SPC BC35 140 060 038	SPC BC35 140 060 058
7	SPC BC35 140 070 018	SPC BC35 140 070 028	SPC BC35 140 070 038	SPC BC35 140 070 058
8	SPC BC35 140 080 018	SPC BC35 140 080 028	SPC BC35 140 080 038	SPC BC35 140 080 058
9	SPC BC35 140 090 018	SPC BC35 140 090 028	SPC BC35 140 090 038	SPC BC35 140 090 058
10	SPC BC35 140 100 018	SPC BC35 140 100 028	SPC BC35 140 100 038	SPC BC35 140 100 058

The availability of each reference for the sale is linked to the authorization of commercialization in the country of destination

- Introducer compatibility: **6F**
- Introducer compatibility: **6F (min 2.15 mm)**
- Introducer compatibility: **6F (min 2.20 mm)**

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MP 51041 Ed. 3 Aug 2018

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luminor 35

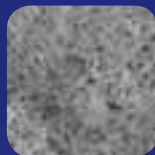
Paclitaxel eluting PTA balloon dilatation catheter

EFFPAC trial
171 patients

Safe and precise
delivery of Paclitaxel



Homogeneous
& **anti-cracking**
coating



Assured coating
stability during
navigation



Proprietary coating
technology **TransferTech**

Nanotechnology
dosage system.
Ultra-thin coating



www.ivascular.global

luminor 35 features

- > **Over-the-wire catheter** (OTW)
- > Usable catheter length: **80 cm** or **140 cm**
- > Recommended guidewire: **0.035"**
- > Tip profile: **0.036"**
- > Crossing profile: **from 0.065" up to 0.077"**
- > Nominal pressure: **6/7 atm**
- > RBP: **16 atm**
- > ABP: **23 atm**

Product with CE mark, certified by Notified Body 0318

Usable catheter length	Balloon Ø (mm)	Balloon Length (mm)					
		20	40	60	80	120	150
80 cm	5.0	BP DPC35 080 500 020	BP DPC35 080 500 040	BP DPC35 080 500 060	BP DPC35 080 500 080	BP DPC35 080 500 120	BP DPC35 080 500 150
	6.0	BP DPC35 080 600 020	BP DPC35 080 600 040	BP DPC35 080 600 060	BP DPC35 080 600 080	BP DPC35 080 600 120	BP DPC35 080 600 150
	7.0	BP DPC35 080 700 020	BP DPC35 080 700 040	BP DPC35 080 700 060	BP DPC35 080 700 080	BP DPC35 080 700 120	-
140 cm	5.0	BP DPC35 140 500 020	BP DPC35 140 500 040	BP DPC35 140 500 060	BP DPC35 140 500 080	BP DPC35 140 500 120	BP DPC35 140 500 150
	6.0	BP DPC35 140 600 020	BP DPC35 140 600 040	BP DPC35 140 600 060	BP DPC35 140 600 080	BP DPC35 140 600 120	BP DPC35 140 600 150
	7.0	BP DPC35 140 700 020	BP DPC35 140 700 040	BP DPC35 140 700 060	BP DPC35 140 700 080	BP DPC35 140 700 120	-

● Introducer compatibility: **SF** ● Introducer compatibility: **6F (ID 2.20 mm)**

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oceanus 14 pro

PTA balloon dilatation catheter

To reach the **most challenging** lesions
with the **highest visibility**

Best flexibility
and trackability*

Smallest balloon
diameters

Enhanced
visibility*

Lowest
profiles

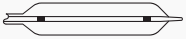
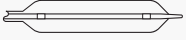
HYDRAX

Proprietary hydrophilic
durable coating



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oceanus 14 pro features

* Radiopaque markers	
	$\varnothing \leq 2.0\text{mm}$, Length $\leq 20\text{mm}$: 1 tungsten marker
	$\varnothing \leq 2.0\text{mm}$, Length $> 20\text{mm}$: 2 tungsten markers
	$\varnothing \geq 2.5\text{mm}$: 2 Pt/Ir markers

- > Over the wire catheter (OTW)
- > Usable Catheter length: 100 cm & 150 cm
- > Guidewire compatibility: 0.014"
- > Tip profile: 0.017"
- > Crossing profile: 0.021" to 0.033"
- > Nominal pressure: 7 atm
- > Rated Burst Pressure (RBP): 16 atm
- > Average Burst Pressure (ABP): 22 atm

Product with CE mark, certified by Notified Body 0318

Usable catheter length	Balloon $\varnothing$ (mm)	Balloon Length (mm)									
		10	15	20	40	60	80	120	150	200	
100 cm	1.25	BP PC14N 100 125 010	BP PC14N 100 125 015	BP PC14N 100 125 020	-	-	-	-	-	-	-
	1.5	BP PC14N 100 150 010	BP PC14N 100 150 015	BP PC14N 100 150 020	BP PC14N 100 150 040	BP PC14N 100 150 060	BP PC14N 100 150 080	-	-	-	-
	2.0	BP PC14N 100 200 010	BP PC14N 100 200 015	BP PC14N 100 200 020	BP PC14N 100 200 040	BP PC14N 100 200 060	BP PC14N 100 200 080	BP PC14N 100 200 120	BP PC14N 100 200 150	BP PC14N 100 200 200	
	2.5	-	-	-	BP PC14N 100 250 040	BP PC14N 100 250 060	BP PC14N 100 250 080	BP PC14N 100 250 120	BP PC14N 100 250 150	BP PC14N 100 250 200	
	3.0	-	-	-	BP PC14N 100 300 040	BP PC14N 100 300 060	BP PC14N 100 300 080	BP PC14N 100 300 120	BP PC14N 100 300 150	BP PC14N 100 300 200	
	3.5	-	-	-	BP PC14N 100 350 040	BP PC14N 100 350 060	BP PC14N 100 350 080	BP PC14N 100 350 120	BP PC14N 100 350 150	BP PC14N 100 350 200	
	4.0	-	-	-	BP PC14N 100 400 040	BP PC14N 100 400 060	BP PC14N 100 400 080	BP PC14N 100 400 120	-	-	
150 cm	1.25	BP PC14N 150 125 010	BP PC14N 150 125 015	BP PC14N 150 125 020	-	-	-	-	-	-	-
	1.5	BP PC14N 150 150 010	BP PC14N 150 150 015	BP PC14N 150 150 020	BP PC14N 150 150 040	BP PC14N 150 150 060	BP PC14N 150 150 080	-	-	-	-
	2.0	BP PC14N 150 200 010	BP PC14N 150 200 015	BP PC14N 150 200 020	BP PC14N 150 200 040	BP PC14N 150 200 060	BP PC14N 150 200 080	BP PC14N 150 200 120	BP PC14N 150 200 150	BP PC14N 150 200 200	
	2.5	-	-	-	BP PC14N 150 250 040	BP PC14N 150 250 060	BP PC14N 150 250 080	BP PC14N 150 250 120	BP PC14N 150 250 150	BP PC14N 150 250 200	
	3.0	-	-	-	BP PC14N 150 300 040	BP PC14N 150 300 060	BP PC14N 150 300 080	BP PC14N 150 300 120	BP PC14N 150 300 150	BP PC14N 150 300 200	
	3.5	-	-	-	BP PC14N 150 350 040	BP PC14N 150 350 060	BP PC14N 150 350 080	BP PC14N 150 350 120	BP PC14N 150 350 150	BP PC14N 150 350 200	
	4.0	-	-	-	BP PC14N 150 400 040	BP PC14N 150 400 060	BP PC14N 150 400 080	BP PC14N 150 400 120	-	-	

● Introducer compatibility: 4F

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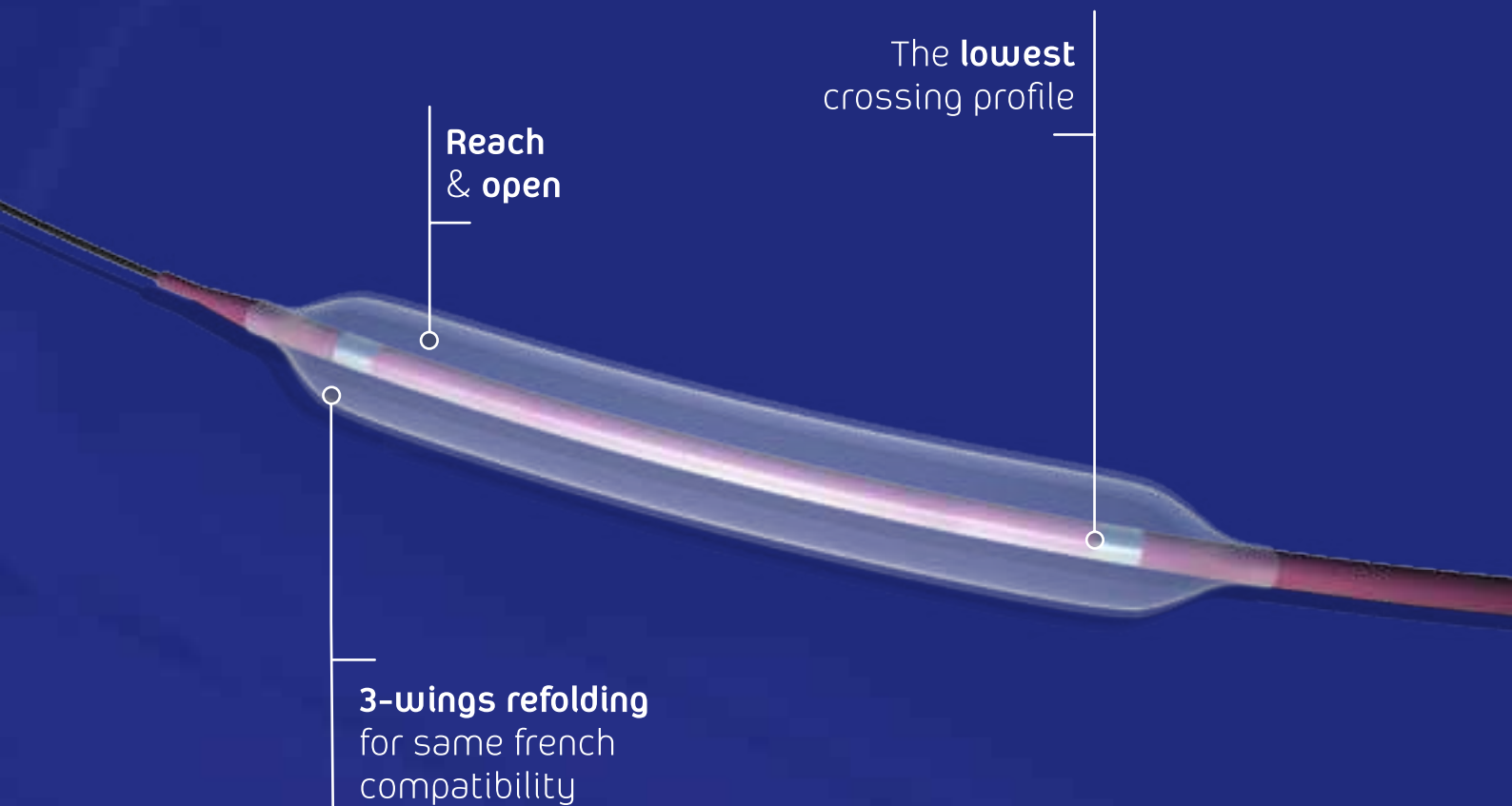
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therapies for living

oceanus 18

PTA balloon dilatation catheter

From iliac to BTK



Reach
& open

The **lowest**
crossing profile

3-wings refolding
for same french
compatibility



Proprietary hydrophilic
durable coating



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oceanus 18 features

- > **Over-the-wire catheter (OTW)**
- > Usable catheter length: **100 cm, 140 cm or 150 cm**
- > Recommended guidewire: **0.018"** (0.014" compatible)
- > Tip profile: **0.019" max.**
- > Crossing profile: **from 0.029" up to 0.057"**
- > Nominal pressure: **7 atm**
- > RBP: **16 atm** (diam. 8 mm: **14 atm**)
- > ABP: **20 atm**

Product with CE mark, certified by Notified Body 0318

Usable catheter length	Balloon Ø (mm)	Balloon Length (mm)						
		20	40	60	80	120	150	200
100 cm	2.0	BP PC18 100 200 020	BP PC18 100 200 040	BP PC18 100 200 060	BP PC18 100 200 080	BP PC18 100 200 120	BP PC18 100 200 150	BP PC18 100 200 200
	2.5	BP PC18 100 250 020	BP PC18 100 250 040	BP PC18 100 250 060	BP PC18 100 250 080	BP PC18 100 250 120	BP PC18 100 250 150	BP PC18 100 250 200
	3.0	BP PC18 100 300 020	BP PC18 100 300 040	BP PC18 100 300 060	BP PC18 100 300 080	BP PC18 100 300 120	BP PC18 100 300 150	BP PC18 100 300 200
	3.5	BP PC18 100 350 020	BP PC18 100 350 040	BP PC18 100 350 060	BP PC18 100 350 080	BP PC18 100 350 120	BP PC18 100 350 150	BP PC18 100 350 200
	4.0	BP PC18 100 400 020	BP PC18 100 400 040	BP PC18 100 400 060	BP PC18 100 400 080	BP PC18 100 400 120	BP PC18 100 400 150	BP PC18 100 400 200
	5.0	BP PC18 100 500 020	BP PC18 100 500 040	BP PC18 100 500 060	BP PC18 100 500 080	BP PC18 100 500 120	BP PC18 100 500 150	BP PC18 100 500 200
	6.0	BP PC18 100 600 020	BP PC18 100 600 040	BP PC18 100 600 060	BP PC18 100 600 080	BP PC18 100 600 120	BP PC18 100 600 150	BP PC18 100 600 200
	7.0	BP PC18 100 700 020	BP PC18 100 700 040	BP PC18 100 700 060	BP PC18 100 700 080	BP PC18 100 700 120	-	-
140 cm	8.0	BP PC18 100 800 020	BP PC18 100 800 040	BP PC18 100 800 060	BP PC18 100 800 080	-	-	-
	5.0	BP PC18 140 500 020	BP PC18 140 500 040	BP PC18 140 500 060	BP PC18 140 500 080	BP PC18 140 500 120	BP PC18 140 500 150	BP PC18 140 500 200
	6.0	BP PC18 140 600 020	BP PC18 140 600 040	BP PC18 140 600 060	BP PC18 140 600 080	BP PC18 140 600 120	BP PC18 140 600 150	BP PC18 140 600 200
	7.0	BP PC18 140 700 020	BP PC18 140 700 040	BP PC18 140 700 060	BP PC18 140 700 080	BP PC18 140 700 120	-	-
150 cm	8.0	BP PC18 140 800 020	BP PC18 140 800 040	BP PC18 140 800 060	BP PC18 140 800 080	-	-	-
	2.0	BP PC18 150 200 020	BP PC18 150 200 040	BP PC18 150 200 060	BP PC18 150 200 080	BP PC18 150 200 120	BP PC18 150 200 150	BP PC18 150 200 200
	2.5	BP PC18 150 250 020	BP PC18 150 250 040	BP PC18 150 250 060	BP PC18 150 250 080	BP PC18 150 250 120	BP PC18 150 250 150	BP PC18 150 250 200
	3.0	BP PC18 150 300 020	BP PC18 150 300 040	BP PC18 150 300 060	BP PC18 150 300 080	BP PC18 150 300 120	BP PC18 150 300 150	BP PC18 150 300 200
	3.5	BP PC18 150 350 020	BP PC18 150 350 040	BP PC18 150 350 060	BP PC18 150 350 080	BP PC18 150 350 120	BP PC18 150 350 150	BP PC18 150 350 200
	4.0	BP PC18 150 400 020	BP PC18 150 400 040	BP PC18 150 400 060	BP PC18 150 400 080	BP PC18 150 400 120	BP PC18 150 400 150	BP PC18 150 400 200

● Introducer compatibility: **4F** ● Introducer compatibility: **5F**

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