Vascular Intervention // Peripheral

Pulsar-18

Self-expanding Stent/0.018"/OTW Indicated for femoral and infrapopliteal arteries



- One-handed stent release for accurate stent deployment
- Low profile 4F delivery system with stents of up to 7 x 200 mm
- Segmented stent design with thin struts for lower restenosis rates
- S-articulating connecting bars and peak-to-valley design for multi-directional flexibility





Pulsar-18 Deliverability where it matters

Stent designed to achieve radial force and flexibility required by SFA

Being a relatively mobile artery, the SFA requires a stent that conforms to the natural vessel movement and provides sufficient support in complex, long lesions that are often difficult to cross. Pulsar-18 is a stent designed for SFA with high multi-directional flexibility on a low-profile delivery system.



Stent designed for SFA

- Peak-to-valley design and S-articulating connecting bars provide multi-directional flexibility and avoid fish-scaling in mobile vessel architecture.
- A segmented design with thin struts provides low Chronic Outward Force (COF)¹ sufficient to maintain vessel scaffolding even in calcified lesions (4EVER study²). High COF has been shown to result in higher rates of neointimal hyperplasia³
- Stent lengths up to 200 mm for covering long lesions with a single stent.





VS.

Peak-to-Valley S-articulating



Competitive



BIOTRONIK data on file (IIB report (P) 71/2011-1)

- 4EVER study. Bosiers. M. 24m results presented CIRSE 2013; Deloose K. 24m results presented LINC 2014
- Ballyk PD. Intramural stress increases exponentially with stent diameter: a stress threshold for neointimal hyperplasia. J Vasc Interv Radiol. 2006 Jul; 17(7): 1139-45
- Freeman JW, Snowhill PB, Nosher JL. A link between stent radial forces and vascular wall remodeling: the discovery of an optimal stent radial force for minimal vessel restenosis. Connect Tissue Res. 2010 Aug; 51(4): 314-26
- Zhao HQ, Nikanorov A, Virmani R, Jones R, Pacheco E, Schwartz LB. Late stent expansion and neointimal proliferation of oversized Nitinol stents in peripheral arteries. Cardiovasc Intervent Radiol. 2009 Jul; 32(4): 720-6

Easy release

Relieves friction of introducer valve on the retractable shaft during stent deployment for a smoother action.

Low chronic outward force

Low Chronic Outward Force (COF)¹ sufficient to maintain vessel scaffolding even in calcified lesions (4EVER study²). As shown below, COF of Pulsar stents increases less than many competitor stents when oversized, thus potentially reducing inflammatory response and restenosis³.



BIOTRONIK data on file (IIB report (P) 71/2011-1)



Pulsar-18 Self-expanding stent/0.018"/OTW

Technical Data	Stent										
	Catheter type				OTW						
	Recommended guide wire				0.018"						
	Stent material				Nitinol						
	Strut thickness				140 μm						
	Strut width				85 μm						
	Stent coating				proBIO (Amorphous Silicon Carbide)						
	Stent markers				6 gold markers each end						
	Sizes				ø 4.0 - 7.0 mm; L: 204 - 200 mm						
	Proximal shaft				3.6F, hydrophobic coating						
	Usable length				90 and 135 cm						
	C 1 1	0.11.1									
Ordering Information	ø (mm)	m) Stent length (mm)									
		204	30	40	60	80	100	120	150	170	200
	4.0	377456	377457	377458	377459	377460	366808	366809	366810	366811	366812
	5.0	377461	377462	377463	377464	377465	366813	366814	366815	366816	366817
45	6.0	377466	377467	377468	377469	377470	366818	366819	366820	366821	366822
	7.0	377471	377472	377473	377474	377475	366823	366824	366825	366826	366827
	Stent ø (mm)	Catheter Stent len	length 135 gth (mm)	i cm							
		204	30	40	60	80	100	120	150	170	200
	4.0	377476	377477	377478	377479	377480	366828	366829	366830	366831	366832
	5.0	377481	377482	377483	377484	377485	366833	366834	366835	366836	366837
U	6.0	377486	377487	377488	377489	377490	366838	366839	366840	366841	366842
	7.0	377491	377492	377493	377494	377495	366843	366844	366845	366846	366847

⁴ 8 weeks pre-order only

Pulsar-18 is part of the BIOTRONIK **4** Solutions portfolio, including:

- Introducer Sheath: Fortress = Guide Wires: Cruiser, Cruiser-18 = Balloons: Passeo-14, Passeo-18
- Stents: PRO-Kinetic Energy Explorer

For ordering please contact your local sales representative

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