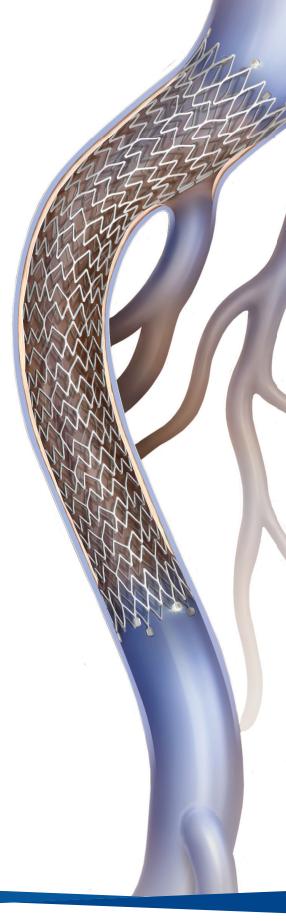


# Venovo™

**Venous Stent System** 

Proven 36-month results in post-thrombotic and non-thrombotic lesions in the VERNACULAR Trial<sup>1</sup>.





Proven 36-month results

Venovo™ Venous Stent

Proven 36-month results

Venovo™ Venous Stent

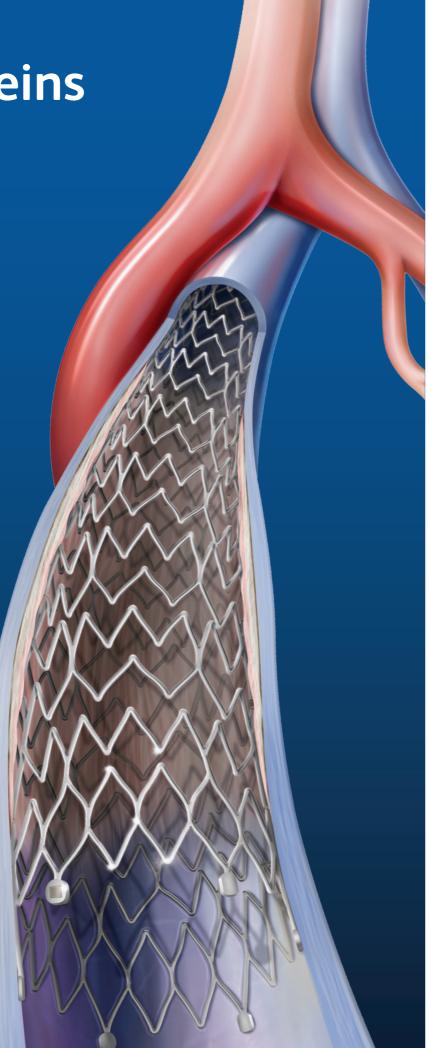
# Designed for veins

The iliac and femoral veins have unique challenges that must be addressed to reduce venous hypertension due to occlusive disease:

- · Large caliber
- · Diffuse and focal lesions
- · Extrinsic compression
- · Post-thrombotic change
- · Complex curvature

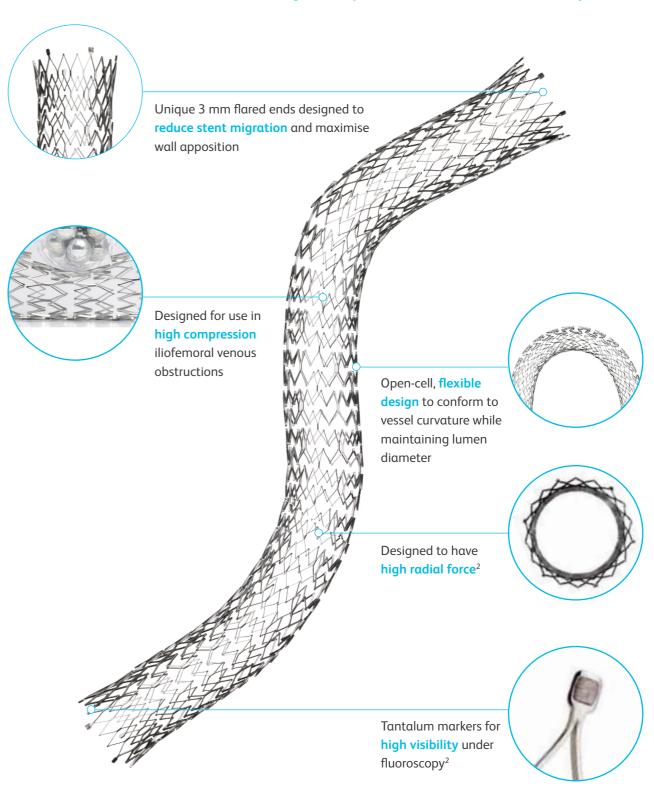
The Venovo<sup>™</sup> Venous Stent was designed and developed for the iliofemoral veins in collaboration with clinicians.

It offers radial force, crush resistance, and flexibility without compromising on delivery accuracy and is available in the sizes needed for the iliofemoral veins.



### Purpose-built Venous Stent

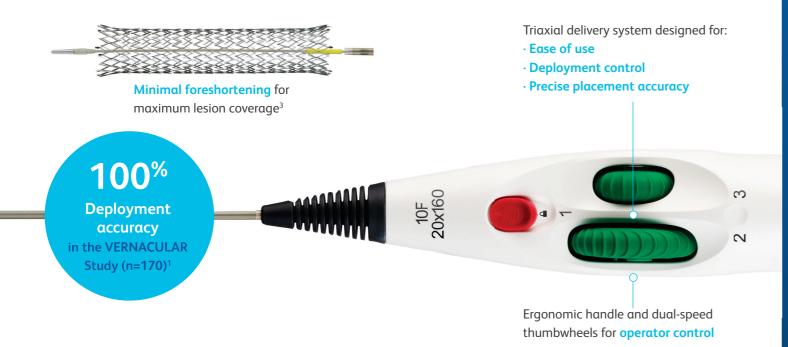
The Venovo<sup>™</sup> Venous Stent was designed to treat non-thrombotic and post-thrombotic iliofemoral lesions with a balance between radial **strength**, **compression resistance**, and **flexibility**.



Proven 36-month results Venovo<sup>™</sup> Venous Stent Proven 36-month results Venovo™ Venous Stent

### Placement accuracy

The Venovo<sup>™</sup> Venous Stent System is designed to provide accurate deployment for optimal stent placement and lesion coverage.



# Full range of sizes

The Venovo™ Venous Stent offers a broad size range including 10 mm - 20 mm stent diameters and stent lengths up to 160 mm.

	Stent Length (mm)								
		40	60	80	100	120	140	160	
Stent Diameter (mm)	10 12				8F				
	14				9F				
	16 18				10F				
	20								

## Venovo™ Venous Stent System 36-month review<sup>1</sup>

Results of VENOVO™ Venous Stent VERNACULAR Clinical Study for treatment of Symptomatic Iliofemoral Venous Outflow

Study design: prospective, multi-center, non-randomised, single-arm study



Intent-to-treat population



with Post-thrombotic syndrome (PTS)



with non-thrombotic iliac vein lesions (NIVL)



sites in Europe, U.S. and Australia\*







Subjects followed through 36 months

\*22 sites enrolled subjects; 21 active sites at end of study

Proven 36-month results

Venovo<sup>™</sup> Venous Stent

Proven 36-month results

Venovo<sup>™</sup> Venous Stent

Venovo<sup>™</sup> Venous Stent

### Proven safe and effective

VERNACULAR study design	Prospective, multi-center, non-randomised, single-arm; Core lab & DSMB				
Purpose	To assess the safety and effectiveness of the Venovo™ Venous Stent for the treatment of iliofemoral occlusive disease.				
As treated population*	170 subjects at 21 sites in the U.S., Europe, and Australia/NZ				
Primary endpoint5**	Primary patency** (12 months)	Freedom from MAE** (30 days)			
Key secondary endpoints	VCSS Pain Score/QoL assessment     Procedure/technical success at index procedure	· Freedom from TVR/TLR at 30 days, 6, 12, 24 and 36 months post index procedure · Primary patency at 24 and 36 months · X-ray analysis of stent fracture			

<sup>\* 22</sup> sites enrolled subjects; 21 active sites at end of study

#### Patency rate



70.0%

Primary patency in post-thrombotic lesions at 36 months<sup>1</sup>

11.9%
TRL rate
at 36 months1

### Device performance



Zero
Stent fractures
through
36 months

Zero
stent migrations
through
36 months

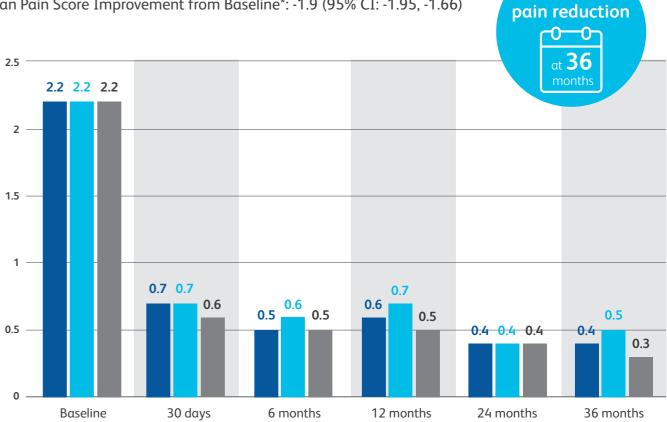
### Patient-reported improvements

In the VERNACULAR Clinical Study, the Venovo<sup>™</sup> Venous Stent demonstrated **significant improvement** in VCSS pain scores and quality of life (CIVIQ-20) at 36 months compared to baseline<sup>1</sup>.

#### VCSS pain score through 36 months

Significant Shift to Lower Pain Scores

Mean Pain Score Improvement from Baseline\*: -1.9 (95% CI: -1.95, -1.66)



\*Paired mean difference in pain score at 36 months compared to baseline (95% CI).

#### VCSS pain score measures discomfort in the treated leg:

0 – Absent

1 – Mild

Mean VCSS Pain Score

2 – Moderate

3 – Severe



Sustained

<sup>\*\*</sup> Evaluated against literature derived performance goal of 74% for efficacy (p<.0001) and 89% for safety (p=.032)

#### Venovo™ Venous Stent System Ordering information



120cm Shaft Length	80cm Shaft Length	Stent diameter (mm)	Stent length (mm)	Sheath compatibility (F)
VENEL10040	VENEM10040		40	8
VENEL10060	IEL10060 VENEM10060		60	8
VENEL10080	VENEM10080	10	80	8
VENEL10100	VENEM10100		100	8
VENEL10120	VENEM10120		120	8
VENEL10140	VENEM10140		140	8
VENEL10160	VENEM10160		160	8
VENEL12040	VENEM12040		40	8
VENEL12060	VENEM12060		60	8
VENEL12080	VENEM12080		80	8
VENEL12100	VENEM12100	12	100	8
VENEL12120	VENEM12120		120	8
VENEL12140	VENEM12140	•	140	8
VENEL12160	L12160 VENEM12160		160	8
VENEL14040	VENEM14040		40	9
VENEL14060	VENEM14060		60	9
VENEL14080	VENEM14080	14	80	9
VENEL14100	VENEM14100		100	9
VENEL14120	VENEM14120		120	9
VENEL14140	VENEM14140		140	9
VENEL14160			160	9
VENEL16040			40	10
VENEL16060	VENEM16060		60	10
VENEL16080	VENEM16080		80	10
VENEL16100	VENEM16100	16	100	10
VENEL16120	VENEM16120		120	10
VENEL16140	VENEM16140	-	140	10
VENEL16160	EL16160 VENEM16160		160	10
VENEL18040			40	10
VENEL18060	VENEM18060		60	10
VENEL18080	VENEM18080		80	10
VENEL18100	VENEM18100	18	100	10
VENEL18120	VENEM18120		120	10
VENEL18140	EL18140 VENEM18140		140	10
VENEL18160			160	10
VENEL20040	VENEM20040		40	10
VENEL20060	VENEM20060		60	10
VENEL20080	VENEM20080		80	10
VENEL20100	VENEM20100	20	100	10
VENEL20120	VENEM20120		120	10
VENEL20140	VENEM20140	-	140	10
VENEL20160	EL20160 VENEM20160		160	10

0.035" guidewire compatible Units per case: 1

- 1 The Venovo™ Venous Stent System was studied in the global VERNACULAR clinical trial, which was a prospective, multi-center, non-randomized, single-arm study of 170 patients. The primary was a prospective, multi-center, non-tandomized, single-arm study of 170 patients. The primar effectiveness endpoint of the study was primary patency (PP) at 12 months post-index procedure. Patients who received a VENOVO<sup>TM</sup> Venous Stent had a weighted PP rate of 88.3%, demonstrating a statistically significant difference from a literature-derived performance goal (PG) of 74%, with an 81.3% PP rate for subjects with post-thrombotic syndrome and 96.9% PP rate for subjects with non-thrombotic iliac vein lesions. The primary safety endpoint was freedom from major adverse events (MAE) through 30 days post-index procedure. Freedom from MAE was 93.5%, demonstrating a statistically significant difference from a literature-derived PG of 89%. Secondary endpoints included acute technical success, Quality of Life (QoL) assessment, Venous Clinical Severity Score (VCSS – Pain score) and stent fractures. Results demonstrated 100% acute technical success, defined as successful deployment of stent(s) to intended target with adequate lesion coverage as assessed by the Investigator at the time of the index procedure. At the 36-month follow-up, the CIVIQ-20 assessment demonstrated a change from baseline in the total study population of -16.8 with 95% confidence interval of -20.07 to -13.54 (P<.0001) and for the VCSS Pain score, a change from baseline in the total population of -1.9 with 95% confidence interval of -1.95 to -1.66 (P<.0001).of -1.9. Stents were evaluated at the 36-month follow-up for fracture analysis. An anteroposterior and lateral x-ray for each evaluated stent were sent to an independent core lab for analysis. 98 subjects' x-rays were analyzed and no stent fractures were reported. Missing x-ray analyses were recorded as protocol deviations. VERNACULAR Clinical Study. Data on File. Bard Peripheral Vascular Inc., Tempe, AZ.
- 2 Results shown in bench testing. Data on file, Bard Peripheral Vascular Inc., Tempe, AZ. Bench tests may not be indicative of clinical performance. Different test methods may
- 3 Results shown in bench testing. Average foreshortening = 2.9% (values based on mathematical calculations). Data on file, Bard Peripheral Vascular Inc., Tempe, AZ. Bench tests may not be indicative of clinical performance. Different test methods may yield different results.

#### Venovo™ Venous Stent System

Indications for Use: The Venovo™ Venous Stent System is indicated for the treatment of stenoses and occlusions in the iliac and femoral veins.

**Contraindications:** The Venovo™ Venous Stent System is contraindicated for use in patients with a known hypersensitivity to nitinol (nickel-titanium) and tantalum, who cannot receive intraprocedural anti-coagulation therapy, or who are judged to have a lesion that prevents complete inflation of a balloon dilatation catheter or proper placement of the stent or the stent delivery system.

Warnings: The Venovo™ Venous Stent System is supplied sterile and is intended for single use only. Do not resterilize and/or reuse the device. Reuse, resterilization, reprocessing and/or repackaging may create a risk to the patient or user, may lead to infection or compromise the structural integrity and/or essential material and design characteristics of the device, which may lead to device failure, and/or lead to injury, illness, or death of the patient. Reusing this medical device bears the risk of cross-patient contamination as medical devices – particularly those with long and small lumina, joints, and/or crevices between components – are difficult or impossible to clean once body fluids or tissues with potential pyrogenic or microbial contamination have had contact with the medical device for an indeterminable period of time. The residue of biological material can promote the contamination of the device with pyrogens or microorganisms which may lead to infectious complications or death. Do not use in patients with total venous occlusion that cannot be dilated to allow passage of the guidewire. Do not use the device with contralateral access. Do not use if pouch is opened or damaged. Do not use the device after the "Use By" date specified on the label. Persons with allergic reactions to nitinol (nickel-titanium) alloy and/or tantalum may suffer an allergic response to this implant. Do not expose the delivery system to organic solvents, e.g., alcohol. The stent is not designed for repositioning or recapturing. Stenting across a major branch could cause difficulties during future diagnostic or the rapeutic procedures. If a long lesion needs to be stented consider using the longest available stent rather than overlapping stents. If multiple stents are placed in an overlapping fashion, they should be of similar composition (i.e., nitinol). The long-term outcomes following repeat dilatation of endothelialized stents are unknown. The safety and effectiveness of this device for use in the arterial system have not been established.

**Precautions:** The device is intended for use by physicians who have received appropriate training. During system flushing, observe that saline exits at the catheter tip. The delivery system is not designed for use with power injection systems. Recrossing a partially or fully deployed stent with adjunct devices must be performed with caution. Prior to stent deployment, remove slack from the delivery system catheter outside the patient. If excessive force is felt during stent deployment, do not force the delivery system. Remove the delivery system and replace with a new unit. Store in a cool, dark, dry place. Do not attempt to break, damage, or disrupt the stent after placement.

 $\textbf{Potential Adverse Events:} \ \textbf{Allergic/anaphylactic reaction} \bullet \textbf{Amputation} \bullet \textbf{Aneurysm} \bullet \textbf$ Arteriovenous fistula • Death related/unrelated to procedure • Dissection • Embolization Extravasation • Fever • Hemorrhage/bleeding requiring α blood transfusion •  $He matoma \bullet Hypotension/hypertension \bullet Incorrect positioning of the stent requiring further stenting or surgery \bullet Intimal injury/dissection \bullet Ischemia/infarction of tissue/$ organ • Local infection • Malposition (failure to deliver the stent to the intended site) • Open surgical repair • Pain • Pulmonary embolism • Pseudoaneurysm • Renal failure • Respiratory arrest • Restenosis • Rupture • Septicemia/bacteremia • Stent Fracture • Stent Migration • Vasospasm • Venous occlusion/thrombosis/restenosis

Please consult package insert for all indications, contraindications, hazards, warnings, precautions, and information for use.

BD Switzerland Sarl, Terre Bonne Park – A4, Route De Crassier, 17, 1262 Eysins, Vaud. Switzerland.



