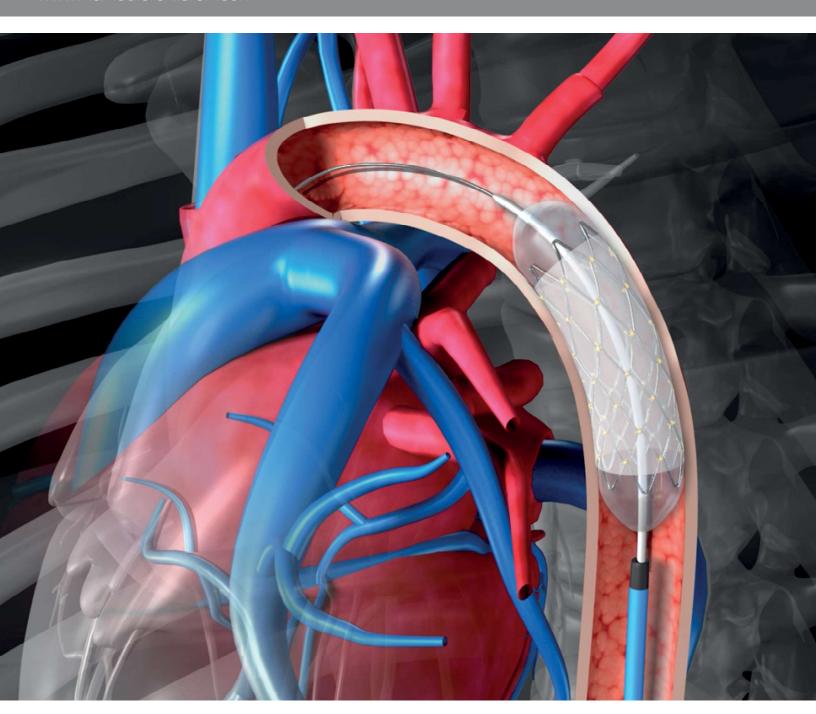


NuMED For Children www.numedforchildren.com





INTERVENTIONAL PRODUCTS







NuMED INTERVENTIONAL PRODUCTS

PERCUTANEOUS TRANSLUMINAL VALVULOPLASTY BALLOON CATHETERS (PTV)		ORDERING INFORMATION
Z-MED™ LINE	4	14-18
TYSHAK® LINE	5	19-26
NuCLEUS™ LINE	6	27-29
MULLINS-X TM	7	30
ATRIOSEPTOSTOMY BALLOON CATHETER		
Z-6 TM	8	31
DIAGNOSTIC CATHETER	0	22
MULTI-TRACK™	9	32
STENT PLACEMENT		
BIB®	10	33-34
CP STENT™ BARE / COVERED		34
MOUNTED CP STENT™ BARE / COVERED	12	35–37
REFERENCES	39 -	- 40





7-MEDTM Line

Z-MEDTM Line catheters are suitable for percutaneous transluminal valvuloplasty (PTV) and predilatation in transcatheter heart-valve replacement procedures. They are available in the widest range of sizes (2.0 – 40.0 mm) and feature high rated burst pressures suitable for resistant stenosis. Rapid inflation and deflation times minimize procedure times and maximize reperfusion. Short, flexible distal tips with short balloon tapers aid maneuverability and trackability through tortuous anatomy.

Benefits

Balloon The Z-MED™ Line PTV balloons are coaxially constructed with a distally mounted non-compliant high pressure balloon suitable for resistant stenosis.

In- and deflation times The Z-MED™ Line PTV balloons have extremely fast in- and deflation times for a quick procedure.

Maximum Trackability The distal shaft through the balloon is highly flexible for exceptional maneuverability. This, combined with the pushability of the coaxial shaft, provides outstanding tracking performance.

Radiopaque Marker Platinum marker bands facilitate reliable positioning of the balloon.

Low profile The exceptionally low profile of the Z-MED™ Line PTV balloons require the smallest

Biggest range of sizes in market

introducers possible.

Z-MED™ Line balloon catheters are available in multiple configurations ranging in diameter from 2.0 to 40.0 mm.

Customized sizes upon request If you don't find the appropriate size for your procedure, we can make customized sizes upon request. Additional regulatory approvals may be needed for customized sizes.

NuMED created four types of Z-MEDTM Balloon Catheters with different specifications – for each intervention the appropriate product!

	Z-MED™ *	Z-MED™ II	Z-MED TM -X	*	Z-MED™ II-X
Details		Higher rated burst pressures than Z-MED™ and Z-MED™-X	Braided inner to Extra high inner Increased push Radiopaque inr Extra fast guide (even with ballo	r lumen str nability ner tubing ewire move	ement
(6	Class III				and Z-IVILD -X
Catheter Body	Polymeric, DEHP-free, Latex	k-free			
	T	on compliant. The balloon wi	Il not overed . / 100/	of the giver	
Balloon	Pressure or Nominal Pressu	•	II Hot exceed +/- 10%	or the giver	n balloon size at Rated Bu
		•	II Not exceed +/- 10%	or the giver	n balloon size at Rated Bu
	Pressure or Nominal Pressure Platinum Iridium	•	8.0 – 30.0	or the giver	n balloon size at Rated Bu
Image Band	Pressure or Nominal Pressu Platinum Iridium 2.0 – 40.0	re), DEHP-free, Latex-free		or the giver	
lmage Band Balloon Diameter (mm)	Pressure or Nominal Pressure Platinum Iridium 2.0 – 40.0 2.0 – 8.0	re), DEHP-free, Latex-free 4.0 – 30.0	8.0 – 30.0	or the giver	8.0 – 30.0
lmage Band Balloon Diameter (mm) Balloon length (cm)	Pressure or Nominal Pressure Platinum Iridium 2.0 – 40.0 2.0 – 8.0 1 – 10	re), DEHP-free, Latex-free 4.0 – 30.0 2.0 – 10.0	8.0 – 30.0 2.0 – 6.0	or the given	8.0 – 30.0 2.0 – 6.0
Image Band Balloon Diameter (mm) Balloon length (cm) Rated Burst Pressure (ATM)	Pressure or Nominal Pressure Platinum Iridium 2.0 – 40.0 2.0 – 8.0 1 – 10 6 – 16	4.0 – 30.0 2.0 – 10.0 3 – 15 5 – 16	8.0 – 30.0 2.0 – 6.0 2 – 10		8.0 – 30.0 2.0 – 6.0 3 – 15
Image Band Balloon Diameter (mm) Balloon length (cm) Rated Burst Pressure (ATM) Introducer Size (FR)	Pressure or Nominal Pressure Platinum Iridium 2.0 – 40.0 2.0 – 8.0 1 – 10 6 – 16 PTV of Pulmonary Valve, Mit	4.0 – 30.0 2.0 – 10.0 3 – 15 5 – 16	8.0 – 30.0 2.0 – 6.0 2 – 10 7 – 13		2.0 – 6.0 3 – 15



TYSHAK® Line

TYSHAK® Line catheters are designed with a low profile that delivers high performance. Manufactured from a micro-thin, non-compliant balloon material, these innovative balloon catheters allow the smallest introducers possible. The reduced sheath size helps minimize vessel trauma and entry-site complications. Short, flexible distal tip gives you superior maneuverability. With well-defined shoulders and minimum balloon tapers, TYSHAK® Line catheters glide easily through smaller and difficult-to-negotiate vessels. They are available in the range of sizes (2.0 – 30.0 mm).

Benefits

Balloon The TYSHAK® Line PTV balloons are coaxially constructed with a distally mounted noncompliant balloon for correct inflation size.

Micro-thin The TYSHAK® Line balloon is made of a micro-thin material which allows an exceptionally low profile and requires therefore the smallest introducers possible.

In- and deflation times The TYSHAK® Line PTV balloons have extremely fast in- and deflation times for a quick procedure.

Maximum Trackability The distal shaft through the balloon is highly flexible for exceptional maneuverability. This, combined with the pushability of the coaxial shaft, provides outstanding tracking performance.

Radiopaque Marker Platinum marker bands facilitate reliable positioning of the balloon.

Biggest range of sizes in market

TYSHAK® Line balloon catheters are available in multiple configurations ranging in diameter from 2.0 to 30.0 mm.

Customized Sizes upon request If you don't find the appropriate size for your procedure, we can make customized sizes upon request. Additional regulatory approvals may be needed for customized sizes.

NuMED created four types of TYSHAK® Balloon Catheters with different specifications – for each intervention the appropriate product!

	TYSHAK® *	TYSHAK II®	TYSHAK-X™ *	TYSHAK Mini®
Details		Lower profile and smaller rated Burst Pressures then TYSHAK®	 Braided inner tubing Extra high inner lumen strength Increased pushability Radiopaque inner tubing Extra fast guidewire movement (even with balloon inflated) 	Super thin balloon – lowes profile of any available balloon in its diameter in market
(€	Class III			
Catheter Body	Polymeric, DEHP-free, Latex-	free		
Odtricter Body				
Balloon	•	n-compliant – The balloon will	not exceed +/- 10% of the giver	n balloon size at Rated Burs
Balloon	Thermoplastic Elastomer (No	n-compliant – The balloon will	not exceed +/- 10% of the giver	n balloon size at Rated Burs
Balloon	Thermoplastic Elastomer (No Pressure or Nominal Pressure Platinum Iridium	n-compliant – The balloon will	not exceed +/- 10% of the giver 8.0 - 25.0	h balloon size at Rated Burs 4.0 – 10.0
Balloon Image Band	Thermoplastic Elastomer (No Pressure or Nominal Pressure Platinum Iridium 2.0 – 25.0	n-compliant – The balloon will e), DEHP-free, Latex-free		
Balloon Image Band Balloon Diameter (mm)	Thermoplastic Elastomer (No Pressure or Nominal Pressure Platinum Iridium 2.0 – 25.0 1.0 –10.0	n-compliant – The balloon will e), DEHP-free, Latex-free 4.0 – 30.0	8.0 – 25.0	4.0 – 10.0
Balloon Image Band Balloon Diameter (mm) Balloon length (cm)	Thermoplastic Elastomer (No Pressure or Nominal Pressure Platinum Iridium 2.0 – 25.0 1.0 –10.0 1.5 – 10	n-compliant – The balloon will e), DEHP-free, Latex-free 4.0 – 30.0 2.0 – 10.0	8.0 – 25.0 2.0 – 6.0	4.0 – 10.0 2.0 – 4.0
Balloon Image Band Balloon Diameter (mm) Balloon length (cm) Rated Burst Pressure (ATM) Introducer Size (FR)	Thermoplastic Elastomer (No Pressure or Nominal Pressure Platinum Iridium 2.0 – 25.0 1.0 –10.0 1.5 – 10	n-compliant – The balloon will e), DEHP-free, Latex-free 4.0 – 30.0 2.0 – 10.0 1.5 – 6	8.0 – 25.0 2.0 – 6.0 1.5 – 5	4.0 – 10.0 2.0 – 4.0 3.5 – 6
Balloon Image Band Balloon Diameter (mm) Balloon length (cm) Rated Burst Pressure (ATM) Introducer Size (FR)	Thermoplastic Elastomer (No Pressure or Nominal Pressure Platinum Iridium 2.0 – 25.0 1.0 –10.0 1.5 – 10 4 – 11 PTV of the Pulmonary Valve	n-compliant – The balloon will e), DEHP-free, Latex-free 4.0 – 30.0 2.0 – 10.0 1.5 – 6	8.0 – 25.0 2.0 – 6.0 1.5 – 5	4.0 – 10.0 2.0 – 4.0 3.5 – 6 3 – 4 Pediatric PTV of the



NuCl FUSTM Line

NuCLEUS™ Line are suitable for percutaneous transluminal valvuloplasty (PTV) and pre-dilatation in transcatheter heart-valve replacement procedures. The balloon is designed with a waist formed into the middle of the balloon. Upon reaching a specified pressure, the waist will expand between 90% to almost 100% of the rated balloon diameter. The innovative balloon design enables accurate positioning prior to and during inflation. NuCLEUS sizes start from 10.0 mm and TYSHAK NuCLEUS sizes already begin with 4.0 mm.

Benefits

Balloon The NuCLEUS™ Line PTV balloons are coaxially constructed with a distally mounted non-compliant high pressure balloon suitable for resistant stenosis.

Precise positioning The innovative balloon design of NuCLEUS™ Line facilitates positive positioning while holding the balloon in the correct location prior to and during inflation.

In- and deflation times The NuCLEUS™ Line PTV balloons have extremely fast in- and deflation times for a quick procedure.

Maximum Trackability The distal shaft through the balloon is highly flexible for exceptional maneuverability. This, combined with the pushability of the coaxial shaft, provides outstanding tracking performance. Radiopaque Marker Platinum marker bands facilitate reliable positioning of the balloon.

Low profile The exceptionally low profile of the NuCLEUS™ Line PTV balloons require the smallest introducers possible.

Biggest range of sizes in market NuCLEUS™ Line balloon catheters are available in multiple configurations ranging in diameter from 4.0 to 30.0 mm

Customized Sizes upon request If you don't find the appropriate size for your procedure, we can make customized sizes upon request. Additional regulatory approvals may be needed for customized sizes.

	NuCLEUS™ *	NuCLEUS-X™	TYSHAK NuCLEUS™ *
Details		 Extra high inner lumen strength Extra fast guidewire movement (even with balloon inflated) Increased pushability from new braided inner tubing Radiopaque inner tubing 	Smaller Introducer sizes and lower rated Burst pressures than NuCLEUS
(€	Class III		
Catheter Body	Polymeric, DEHP-free, Latex-free		
Balloon	Thermoplastic Elastomer (Non-co Pressure or Nominal Pressure), D	ompliant – The balloon will not exceed +/- 10% EHP-free, Latex-free	of the given balloon size at Rated Burst
Image Band	Platinum Iridium		
Balloon Diameter (mm)	10.0 – 30.0	18.0 – 30.0	4.0 – 25.0
Balloon length (cm)	3.0 – 6.0	4.0 – 6.0	2.0 – 4.0
Rated Burst Pressure (ATM)	2-9	2 – 4	2-5
Introducer Size (FR)	7 – 14	10 – 14	6 – 11
Indication	PTV of the Mitral & Aortic Valve		PTV of the Pulmonary Valve
	Page 27 - 29		



Mullins-XTM *

The Mullins-X[™] is an ultra high pressure dilatation balloon catheter. It is the specialist when it comes to indications calling for extremely high pressure. It can be used either for percutaneous transluminal valvuloplasty or angioplasty for femoral, iliac & renal arteries.

Benefits

Very high Rated Burst Pressures Mullins-X™ special laminated construction provides a rated burst pressure (RBP) of up to 14 ATM.

Five Platinum marker bands for precise positioning One marker is in the tip of the catheter, two are fitted below the shoulder of the balloon and two are in the middle section of the balloon.

Balloon The Mullins-X[™] PTV and PTA balloon is coaxially constructed with a distally mounted non-compliant high pressure balloon suitable for resistant stenosis.

Maximum Trackability The distal shaft through the balloon is highly flexible for exceptional maneuverability. This, combined with the pushability of the coaxial shaft, provides outstanding tracking performance.

Customized Sizes upon request If you don't find the appropriate size for your procedure, we can make customized sizes upon request. Additional regulatory approvals may be needed for customized sizes.

	Mullins-X [™]
Details	Extra high inner lumen strength
	• Extra fast guidewire movement (even with balloon inflated)
	Increased pushability from new braided inner tubing
	Radiopaque inner tubing
€	Class III for PTV, Class IIa for PTA
Catheter Body	Polymeric, DEHP-free, Latex-free
Balloon	Thermoplastic Elastomer (Non-compliant – The balloon will not exceed +/- 10% of the given balloon size at Rated Burst
	Pressure), DEHP-free, Latex-free
Image Band	Platinum Iridium
Balloon Diameter (mm)	12.0 – 25.0
Balloon length (cm)	3.0 – 4.0
Rated Burst Pressure (ATM)	9 – 14
Introducer Size (FR)	7-9
Indication	PTV of the Pulmonary valve and PTA for femoral, iliac & renal arteries
Ordering information	Page 30

Atrioseptostomy Balloon Catheter



Z-6TM

The NuMED Z-6™ Atrioseptostomy catheter is engineered for maximum steering and tracking. The dual lumen shaft design provides pushability, coupled with exceptional pull strength. This new innovation in Atrioseptostomy catheter design is of potential importance in patients who are subject to a small left atrium and in small neonates with congenital heart disease requiring Atrioseptostomy.

Benefits

Radiopaque Catheter Body & Balloon Image Marker The NuMED Z-6™ Atrioseptostomy catheter body is Radiopaque to facilitate reliable positioning of the catheter. A Platinum image marker band is placed under the balloon for clear identification under fluoroscopy.

Micro-Thin Non-Compliant Balloon The NuMED Z-6™ Atrioseptostomy balloon is microthin for low deflated profile that maintains tip flexibility. The Inflation of the balloon is controlled by volume. (see volumetric chart-Instructions for Use)

Reduced Balloon Size The reduced inflated balloon size should make Atrioseptostomy easier to perform on neonates with a small left atrium.

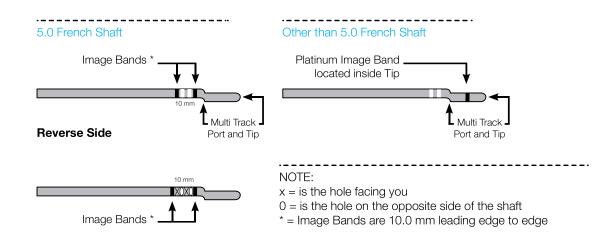
Tip Angulation The tip of the catheter is angled at 35° to facilitate passage into the left atrium. Inner Lumen The NuMED Z-6™ Atrioseptostomy catheter has an inner lumen. The catheter end hole can accommodate a guidewire.

	Z-6 TM
CE	Class III
Catheter Body	Polymeric, DEHP-free, Latex-free
Balloon	Thermoplastic Elastomer (Non-compliant), DEHP-free, Latex-free
Image Band	Platinum Iridium
Balloon Diameter (mm)	9.5 and 13.5
Balloon length (cm)	0.95 and 1.35
Maximum Volume (CC)	1-2
Introducer Size (FR)	6
Indication	Recommended for balloon atrioseptostomy
Ordering information	Page 31

Diagnostic Catheter

MULTI-TRACKTM ,

The MULTI-TRACK™ angiographic catheter utilizes a unique concept of guidewire location to increase flow rate and maneuverability of the catheters. Designed from radiopaque materials, the catheters are easily placed and can be used in conjunction with different types of interventional catheters. It's innovative offset distal tip passes over-the-wire, leaving the catheter shaft free for infusion of contrast media or for obtaining pressure measurements. This allows the guidewire to remain in position throughout the procedure. High quality angiography and pressure recordings during diagnostic and interventional cardiac catheterization.



	MULTI-TRACK™
Details	 Perform angiography without removing and repositioning the guidewire. Obtain simultaneous gradient pressure measurements. Place multiple catheters on the guidewire. Precisely control pull-back or push-up pressure tracings.
CE	Class III
Catheter Body	Polymeric, DEHP-free, Latex-free
Image Band	Platinum Iridium
Maximum Injection (PSI)	1000
Flow rate (ml/sec)	2.7 – 25
Introducer Size (FR)	4-8
Shaft Size (FR)	2.5 – 6.0
Indication	Recommended for use in catheterization for angiography of cardiovascular vessels and / or chambers.
	It can be used for injection of contrast medium and pressure measurement in any chamber or vessel.
Ordering information	Page 32





BIB®

The Special Balloon-in-Balloon catheter (BIB®) is used to insert stents in a two-stage implantation process. This enables stents to be opened or expanded evenly and positioned correctly. The inner balloon of the BIB® Catheter is half the diameter of the outer balloon and is 1.0 cm shorter in length.

Benefits

Stent placement with BIB® reduces the risk of asymmetric stent opening and stent dislodgement.¹

Inner balloon inflation When the inner balloon is inflated, the stent expansion begins from the center of the stent. The stent is firmly gripped on to the balloon to allow for fine positioning before the final expansion by inflating the outer balloon.

Outer balloon inflation If the stent is placed in the right position, the outer balloon can be inflated. Customized sizes upon request If you don't find the appropriate size for your procedure, we can make customized sizes upon request. Additional regulatory approvals may be needed for customized sizes.

	BIB®
Details	Special Balloon-in-Balloon catheter for two-stage placement of stents
	The diameter of the inner balloon is half the diameter of the outer balloon diameter.
	The length of the inner balloon is 1.0 cm shorter than the outer balloon length.
CE	Class III
Catheter Body	Polymeric, DEHP-free, Latex-free
Balloon	Thermoplastic Elastomer (Non-compliant – The balloon will not exceed +/- 10% of the given balloon size at Rated
	Burst Pressure), DEHP-free, Latex-free
Image Band	Platinum Iridium
Balloon Diameter (mm)	12.0 – 30.0
Balloon length (cm)	2.5 – 6.0
Outer Balloon Rated Burst Pressure (ATM)	2-7
Introducer Size (FR)	8 – 16
Indication	Indicated for stent placement in vessels over 8 mm in diameter.
Ordering information	Page 33 - 34

¹ Marc Gewillig, Werner Budts, Derize Boshoff & Geert Maleux, Percutaneous interventions of the aorta. Future Cardiol. (2012)8(2), 251-269



CP Stent™ bare



CP Stent™ covered

Bare and Covered CP Stent™

The CP Stent™ is composed of 0.013" Platinum/Iridium wire that is arranged in a "zig" pattern, laser welded at each joint and over brazed with 24K Gold. It allows expansion from 12.0 mm to 24.0 mm. The Covered CP Stent™ is comprised of the Bare CP Stent that is covered with an expandable sleeve of ePTFE.

Benefits

High quality The CP Stent™ is made of a 0.013" thick Platinum/Iridium wire mesh arranged in a zig-zag pattern. Every point of intersection is laser welded and brazed with 24K Gold.

High expansion range It has an expansion range of 12.0 - 24.0 mm.

Bare & Covered The CP Stent™ is available in a bare version or covered with an expandable sheath of ePTFE.

Adjustable fit Thanks to its considerable capacity for expansion, the stent just needs to be redilated to accommodate the child's natural growth. Therefore no extra stent needs to be implanted. Customized sizes upon request If you don't find the appropriate size for your procedure, we can make customized sizes upon request. Additional regulatory approvals may be needed for customized sizes.

 Stenosis of the aorta where balloon angioplasty is ineffective or contraindicated Stenosis of the aorta where balloon angioplasty is ineffective or contraindicated Stenosis of the aorta where balloon angioplasty is ineffective or contraindicated Stenosis diameter <20% of the adjacent vessel diameter Stenosis that would present increased risk of vascular 		CP Stent™ bare	CP Stent™ covered
Connection/Welding Stent length (cm) Indication Indicated for implantation in the native and/or recurrent coarctation of the aorta on patients with the following clinical conditions: • Stenosis of the aorta resulting in significant anatomic narrowing as determined by angiography or non-invasive imaging, i.e. echocardiography, magnetic resonance imaging (MRI), CT Scan • Stenosis of the aorta resulting in hemodynamic alterations, resulting in systolic pressure gradient, systemic hypertension or altered left ventricular function • Stenosis of the aorta where balloon angioplasty is ineffective or contraindicated • Stenosis diameter >20% of the adjacent vessel diameter Stenosis diameter <20% of the adjacent vessel diameter • Stenosis that would present increased risk of vascular	(€	Class III	
Stent length (cm) Indication Indicated for implantation in the native and/or recurrent coarctation of the aorta on patients with the following clinical conditions: Stenosis of the aorta resulting in significant anatomic narrowing as determined by angiography or non-invasive imaging, i.e. echocardiography, magnetic resonance imaging (MRI), CT Scan Stenosis of the aorta resulting in hemodynamic alterations, resulting in systolic pressure gradient, systemic hypertension or altered left ventricular function Stenosis of the aorta where balloon angioplasty is ineffective or contraindicated Stenosis diameter >20% of the adjacent vessel diameter Stenosis of the aorta resulting in significant anatomic narrowing as determined by angiography or non-invasive imaging, i.e. echocardiography, magnetic resonance imaging (MRI), CT Scan Stenosis of the aorta resulting in hemodynamic alterations, resulting in systolic pressure gradient, systemic hypertension or altered left ventricular function Stenosis of the aorta resulting in significant anatomic narrowing as determined by angiography or non-invasive imaging, i.e. echocardiography, magnetic resonance imaging (MRI), CT Scan Stenosis of the aorta resulting in significant anatomic narrowing as determined by angiography or non-invasive imaging, i.e. echocardiography, magnetic resonance imaging (MRI), CT Scan Stenosis of the aorta resulting in systolic pressure gradient, systemic hypertension or altered left ventricular function Stenosis of the aorta resulting in systolic pressure or ontraindicated Stenosis of the aorta resulting in significant anatomic narrowing as determined by angiography or non-invasive imaging, i.e. echocardiography, magnetic resonance imaging (MRI), CT Scan Stenosis of the aorta resulting in significant anatomic narrowing as determined by angiography or non-invasive imaging, i.e. echocardiography, magnetic resonance imaging (MRI), CT Scan Stenosis of the aorta resulting in systolic pressure gradient, systemic hypertension or altered left ventricular funct	Wire	0.013" Platinum/iridium	
Indication Indicated for implantation in the native and/or recurrent coarctation of the aorta on patients with the following clinical conditions: • Stenosis of the aorta resulting in significant anatomic narrowing as determined by angiography or non-invasive imaging, i.e. echocardiography, magnetic resonance imaging (MRI), CT Scan • Stenosis of the aorta resulting in hemodynamic alterations, resulting in systolic pressure gradient, systemic hypertension or altered left ventricular function • Stenosis of the aorta where balloon angioplasty is ineffective or contraindicated • Stenosis diameter >20% of the adjacent vessel diameter • Stenosis that would present increased risk of vascular	Connection/Welding	24K Gold	
 Stenosis of the aorta resulting in significant anatomic narrowing as determined by angiography or non-invasive imaging, i.e. echocardiography, magnetic resonance imaging (MRI), CT Scan Stenosis of the aorta resulting in significant anatomic narrowing as determined by angiography or non-invasive imaging, i.e. echocardiography, magnetic resonance imaging (MRI), CT Scan Stenosis of the aorta resulting in significant anatomic narrowing as determined by angiography or non-invasive imaging, i.e. echocardiography, magnetic resonance imaging (MRI), CT Scan Stenosis of the aorta resulting in significant anatomic narrowing as determined by angiography or non-invasive imaging, i.e. echocardiography, magnetic resonance imaging (MRI), CT Scan Stenosis of the aorta resulting in significant anatomic narrowing as determined by angiography or non-invasive imaging, i.e. echocardiography, magnetic resonance imaging (MRI), CT Scan Stenosis of the aorta resulting in significant anatomic narrowing as determined by angiography or non-invasive imaging, i.e. echocardiography, magnetic resonance imaging (MRI), CT Scan Stenosis of the aorta resulting in significant anatomic narrowing as determined by angiography or non-invasive imaging, i.e. echocardiography, magnetic resonance imaging (MRI), CT Scan Stenosis of the aorta resulting in systolic pressure gradient, systemic hypertension or altered left ventricular function Stenosis of the aorta resulting in significant anatomic narrowing as determined by angiography or non-invasive imaging, i.e. echocardiography, magnetic resonance imaging (MRI), CT Scan Stenosis of the aorta resulting in systolic pressure gradient, systemic hypertension or altered left ventricular function Stenosis of the aorta resulting in systolic pressure gradient, systemic hypertension or altered left ventricular function Stenosis of the aorta resulting in systolic pressure gradient, systemic hypertension or alte	Stent length (cm)	1.6 – 4.5	
narrowing as determined by angiography or non-invasive imaging, i.e. echocardiography, magnetic resonance imaging (MRI), CT Scan • Stenosis of the aorta resulting in hemodynamic alterations, resulting in systolic pressure gradient, systemic hypertension or altered left ventricular function • Stenosis of the aorta where balloon angioplasty is ineffective or contraindicated • Stenosis diameter >20% of the adjacent vessel diameter narrowing as determined by angiography or non-invasive imaging, i.e. echocardiography, magnetic resonance imaging (MRI), CT Scan • Stenosis of the aorta resulting in hemodynamic alterations, resulting in systolic pressure gradient, systemic hypertension or altered left ventricular function • Stenosis of the aorta where balloon angioplasty is ineffective or contraindicated • Stenosis diameter <20% of the adjacent vessel diameter • Stenosis that would present increased risk of vascular	Indication	·	ctation of the aorta on patients with the following
Aneurysm associated with coarctation of the aorta		narrowing as determined by angiography or non- invasive imaging, i.e. echocardiography, magnetic resonance imaging (MRI), CT Scan • Stenosis of the aorta resulting in hemodynamic alterations, resulting in systolic pressure gradient, systemic hypertension or altered left ventricular function • Stenosis of the aorta where balloon angioplasty is ineffective or contraindicated	narrowing as determined by angiography or non-invasive imaging, i.e. echocardiography, magnetic resonance imaging (MRI), CT Scan • Stenosis of the aorta resulting in hemodynamic alterations, resulting in systolic pressure gradient, systemic hypertension or altered left ventricular function • Stenosis of the aorta where balloon angioplasty is ineffective or contraindicated • Stenosis diameter <20% of the adjacent vessel diameter • Stenosis that would present increased risk of vascular damage or disruption
Ordering information Page 34	Ordering information	Page 34	



Mounted Bare and Mounted Covered CP StentTM

The Mounted Bare and Mounted Covered CP Stent™ consists of a bare/covered CP Stent™ premounted on a BIB® Catheter. This system allows the physician the flexibility of using the premounted complete system and will save the time required to mount the stent on the catheter.

Mounted Bare CP Stent™



Mounted Covered CP Stent™

Benefits

High quality The CP Stent™ is made of a 0.013" thick Platinum/Iridium wire mesh arranged in a zig-zag pattern. Every point of intersection is laser welded and brazed with 24K Gold. High expansion range It has an expansion range of 12.0 – 24.0 mm.

Bare & Covered The CP Stent™ is available in a bare version or covered with an expandable sheath of ePTFE.

Adjustable fit Thanks to its considerable capacity for expansion, the stent just needs to be redilated to accommodate the child's natural growth. Therefore no extra stent needs to be implanted. Premounting saves time and reduces risk of dislodgement.

Customized sizes upon request If you don't find the appropriate size for your procedure, we can make customized sizes upon request. Additional regulatory approvals may be needed for customized sizes.

	Mounted Bare CP Stent™ (MCP)	Mounted Covered CP Stent™ (CMCP)
CE	Class III	
Wire	0.013" Platinum/Iridium	
Connection/Welding	24K Gold	
Stent length (cm)	1.6 – 4.5	
Indication	Indicated for implantation in the native and/or recurrent coar clinical conditions:	ctation of the aorta on patients with the following
	Stenosis of the aorta resulting in significant anatomic narrowing as determined by angiography or non- invasive imaging, i.e. echocardiography, magnetic resonance imaging (MRI), CT Scan Stenosis of the aorta resulting in hemodynamic alterations, resulting in systolic pressure gradient, systemic hypertension or altered left ventricular function Stenosis of the aorta where balloon angioplasty is ineffective or contraindicated Stenosis diameter >20% of the adjacent vessel diameter	Stenosis of the aorta resulting in significant anatomic narrowing as determined by angiography or non- invasive imaging, i.e. echocardiography, magnetic resonance imaging (MRI), CT Scan Stenosis of the aorta resulting in hemodynamic alterations, resulting in systolic pressure gradient, systemic hypertension or altered left ventricular function Stenosis of the aorta where balloon angioplasty is ineffective or contraindicated Stenosis diameter <20% of the adjacent vessel diameter Stenosis that would present increased risk of vascular damage or disruption Aneurysm associated with coarctation of the aorta
Ordering information	Page 35 - 37	

Z-MED TM	$Z\text{-}MED^{TM}\text{-}X$	Balloon	Balloon	Introducer	Shaft	Usable	Guide	Rated	Nominal
Z-MED TM II	Z-MED™ II-X	Diameter (mm)	Length (cm)	Size (FR)	Size (FR)	Length (cm)	Wire (Inches)	Burst (ATM)	Pressure (ATM)
PDZ600		4.0	2.0	5	5	100	0.025	15	6
DZ323		4.0	2.0	6	5	100	0.025	10	N/A
PDZ601		4.0	3.0	5	5	100	0.025	15	6
PDZ602		4.0	4.0	5	5	100	0.025	15	6
PDZ603		4.0	5.0	5	5	100	0.025	15	6
PDZ604		4.0	6.0	5	5	100	0.025	15	6
PDZ324		5.0	2.0	6	5	100	0.025	10	N/A
PDZ605		5.0	2.0	6	5	100	0.025	15	6
PDZ606		5.0	3.0	6	5	100	0.025	15	6
PDZ607		5.0	4.0	6	5	100	0.025	15	6
PDZ608		5.0	5.0	6	5	100	0.025	15	6
PDZ609		5.0	6.0	6	5	100	0.025	15	6
PDZ325		6.0	2.0	6	5	100	0.025	10	N/A
PDZ610		6.0	2.0	6	5	100	0.025	15	6
PDZ611		6.0	3.0	6	5	100	0.025	15	6
DZ344		6.0	3.0	7	6	100	0.035	10	N/A
PDZ612		6.0	4.0	6	5	100	0.025	15	6
PDZ613		6.0	5.0	6	5	100	0.025	15	6
PDZ614		6.0	6.0	6	5	100	0.025	15	6
PDZ317		7.0	2.0	6	5	100	0.025	10	N/A
PDZ615		7.0	2.0	6	5	100	0.025	15	6
PDZ616		7.0	3.0	6	5	100	0.025	15	6
PDZ617		7.0	4.0	6	5	100	0.025	15	6
PDZ618		7.0	5.0	6	5	100	0.025	15	6
PDZ619		7.0	6.0	6	5	100	0.025	15	6
PDZ326	PDZ400	8.0	2.0	7	6	100	0.035	10	N/A
PDZ620	PDZ700	8.0	2.0	7	6	100	0.035	15	6
PDZ327	PDZ401	8.0	3.0	7	6	100	0.035	10	N/A
PDZ621	PDZ701	8.0	3.0	7	6	100	0.035	15	6
22021	PDZ402	8.0	4.0	7	6	100	0.035	10	N/A
PDZ622	PDZ702	8.0	4.0	7	6	100	0.035	15	6
<i>D2022</i>	PDZ403	8.0	5.0	7	6	100	0.035	10	N/A
PDZ623	PDZ703	8.0	5.0	7	6	100	0.035	15	6
52020	PDZ404	8.0	6.0	7	6	100	0.035	10	N/A
PDZ624	PDZ704	8.0	6.0	7	6	100	0.035	15	6
PDZ328	PDZ405	9.0	2.0	7	6	100	0.035	10	N/A
DZ625	PDZ705	9.0	2.0	7	6	100	0.035	14	6
DZ329	PDZ406	9.0	3.0	7	6	100	0.035	10	N/A
DZ626	PDZ706	9.0	3.0	7	6	100	0.035	14	6
DEGLO	PDZ407	9.0	4.0	7	6	100	0.035	10	N/A
PDZ627	PDZ707	9.0	4.0	7	6	100	0.035	14	6
DZUZI	PDZ408	9.0	5.0	7	6	100	0.035	10	N/A
PDZ628	PDZ708	9.0	5.0	7	6	100	0.035	14	6
DZUZO	PDZ708 PDZ409	9.0	6.0	7	6	100	0.035	10	N/A

Z-MED™ l	_ine								
Z-MED TM	Z-MED™-X	Balloon Diameter	Balloon Length	Introducer Size	Shaft Size	Usable Length	Guide Wire	Rated Burst	Nominal Pressure
Z-MED TM II	Z-MED™ II-X	(mm)	(cm)	(FR)	(FR)	(cm)	(Inches)	(ATM)	(ATM)
PDZ629	PDZ709	9.0	6.0	7	6	100	0.035	14	6
PDZ630	PDZ710	10.0	2.0	7	6	100	0.035	13	6
PDZ330	PDZ410	10.0	2.0	7	6	100	0.035	9	N/A
PDZ631	PDZ711	10.0	3.0	7	6	100	0.035	13	6
PDZ331	PDZ411	10.0	3.0	7	6	100	0.035	9	N/A
PDZ632	PDZ712	10.0	4.0	7	6	100	0.035	13	6
DZ341	PDZ412	10.0	4.0	7	6	100	0.035	9	N/A
PDZ633	PDZ713	10.0	5.0	7	6	100	0.035	13	6
	PDZ413	10.0	5.0	7	6	100	0.035	9	N/A
DZ634	PDZ714	10.0	6.0	7	6	100	0.035	13	6
	PDZ414	10.0	6.0	7	6	100	0.035	9	N/A
DZ371		11.0	3.0	7	6	100	0.035	7	N/A
60028		11.0	3.0	8	6	100	0.035	10	6
0039		11.0	4.0	8	6	100	0.035	10	6
SN022	PDZ415	12.0	2.0	7	6	100	0.035	7	N/A
DZ635	PDZ715	12.0	2.0	8	6	100	0.035	10	6
DZ342		12.0	2.0	8	6	100	0.035	7	N/A
N023	PDZ416	12.0	3.0	7	6	100	0.035	7	N/A
DZ636	PDZ716	12.0	3.0	8	6	100	0.035	10	6
DZ318		12.0	3.0	8	6	100	0.035	7	N/A
DZ364		12.0	3.0	8	7	100	0.035	7	N/A
0093		12.0	3.5	8	6	100	0.035	10	6
SN025	PDZ417	12.0	4.0	7	6	100	0.035	7	N/A
DZ637	PDZ717	12.0	4.0	8	6	100	0.035	10	6
DZ332		12.0	4.0	8	6	100	0.035	7	N/A
DZ365		12.0	4.0	8	7	100	0.035	7	N/A
SN026	PDZ418	12.0	5.0	7	6	100	0.035	7	N/A
DZ638	PDZ718	12.0	5.0	8	6	100	0.035	10	6
	PDZ419	12.0	6.0	7	6	100	0.035	7	N/A
DZ639	PDZ719	12.0	6.0	8	6	100	0.035	10	6
DZ378		12.0	6.0	8	6	100	0.035	7	N/A
0068		12.0	2.5	8	6	100	0.035	10	6
N047		13.0	3.0	9	7	100	0.035	10	5
DZ348		13.0	3.0	9	7	100	0.035	6	N/A
N048		13.0	4.0	9	7	100	0.035	10	5
DZ349		13.0	5.0	9	7	100	0.035	6	N/A
DZ681		14.0	2.0	9	7	100	0.035	10	5
N027		14.0	3.0	7	6	100	0.035	6	N/A
	PDZ420	14.0	3.0	8	7	100	0.035	6	N/A
DZ640	PDZ720	14.0	3.0	9	7	100	0.035	10	5
PDZ333	1 02120	14.0	3.0	9	7	100	0.035	6	N/A
DZ333 PDZ368		14.0	3.0	9	8	100	0.035	6	N/A
DZ300		14.0	4.0	7	6	100	0.035	6	N/A
DZ300		14.0	4.0	1	U	100	0.055	U	IWA

Z-MED™ L	_ine								
Z-MED™	Z-MED™-X	Balloon Diameter	Balloon Length	Introducer Size	Shaft Size	Usable Length	Guide Wire	Rated Burst	Nominal Pressure
Z-MED TM II	Z-MED™ II-X	(mm)	(cm)	(FR)	(FR)	(cm)	(Inches)	(ATM)	(ATM)
PDZ641	PDZ721	14.0	4.0	9	7	100	0.035	10	5
PDZ334		14.0	4.0	9	7	100	0.035	6	N/A
PDZ369		14.0	4.0	9	8	100	0.035	6	N/A
	PDZ422	14.0	5.0	8	7	100	0.035	6	N/A
PDZ642	PDZ722	14.0	5.0	9	7	100	0.035	10	5
PDZ351		14.0	5.0	9	7	100	0.035	6	N/A
	PDZ423	14.0	6.0	8	7	100	0.035	6	N/A
PDZ643	PDZ723	14.0	6.0	9	7	100	0.035	10	5
PDZ359		15.0	2.0	9	7	100	0.035	5	N/A
	PDZ424	15.0	3.0	8	7	100	0.035	5	N/A
PDZ335		15.0	3.0	9	7	100	0.035	5	N/A
PDZ644	PDZ724	15.0	3.0	9	7	100	0.035	8	5
	PDZ425	15.0	4.0	8	7	100	0.035	5	N/A
PDZ336		15.0	4.0	9	7	100	0.035	5	N/A
PDZ645	PDZ725	15.0	4.0	9	7	100	0.035	8	5
PDZ366	1 32123	15.0	4.0	9	8	100	0.035	5	N/A
B2000	PDZ426	15.0	5.0	8	7	100	0.035	5	N/A
PDZ361	1 02 120	15.0	5.0	9	7	100	0.035	5	N/A
PDZ646	PDZ726	15.0	5.0	9	7	100	0.035	8	5
1 020 10	PDZ427	15.0	6.0	8	7	100	0.035	5	N/A
PDZ647	PDZ727	15.0	6.0	9	7	100	0.035	8	5
PDZ322	PDZ428	16.0	3.0	9	7	100	0.035	5	N/A
PDZ648	PDZ728	16.0	3.0	9	7	100	0.035	8	4
PDZ319	PDZ429	16.0	4.0	9	7	100	0.035	5	N/A
PDZ649	PDZ729	16.0	4.0	9	7	100	0.035	8	4
PDZ367	1 02123	16.0	4.0	9	8	100	0.035	5	N/A
1 02301	PDZ430	16.0	5.0	9	7	100	0.035	5	N/A
PDZ650	PDZ730	16.0	5.0	9	7	100	0.035	8	4
PDZ370	PDZ431	16.0	6.0	9	7	100	0.035	5	N/A
PDZ651	PDZ731	16.0	6.0	9	7	100	0.035	8	4
PDZ354	T DZT 31	17.0	3.0	10	7	100	0.035	4	N/A
PDZ355		17.0	6.0	10	7	100	0.035	4	N/A
PDZ355 PDZ356		18.0	3.0	10	7	100	0.035	4	N/A
PDZ330	PDZ432	18.0	3.0	10	8	100	0.035	4	N/A
PDZ652	PDZ732	18.0	3.0	10	8	100	0.035	7	4
PDZ347	TULTUL	18.0	4.0	9	8	100	0.035	4	N/A
PDZ347	PDZ433	18.0	4.0	10	8	100	0.035	4	N/A
PDZ653	PDZ433	18.0	4.0	10	8	100	0.035	7	4
PDZ686	I DZI 33	18.0	4.5	11	10	110	0.035	7	4
DZUUU	PDZ434	18.0	5.0	10	8	100	0.035	4	N/A
DD7654		18.0	5.0		8	100	0.035	7	1N/A 4
PDZ654 PDZ357	PDZ734			10					
FDZ331	DD7425	18.0	6.0	10	7	100	0.035	4	N/A
DD7655	PDZ435	18.0	6.0	10	8	100	0.035	7	N/A
PDZ655	PDZ735	18.0	6.0	10	8	100	0.035	7	4

Z-MED™ L	_ine								
Z-MED TM	Z-MED™-X Z-MED™ II-X	Balloon Diameter (mm)	Balloon Length (cm)	Introducer Size (FR)	Shaft Size (FR)	Usable Length (cm)	Guide Wire (Inches)	Rated Burst (ATM)	Nominal Pressure (ATM)
PDZ358		19.0	6.0	11	7	100	0.035	4	N/A
	PDZ436	20.0	3.0	11	8	100	0.035	4	N/A
PDZ382		20.0	3.0	12	8	100	0.035	4	N/A
PDZ656	PDZ736	20.0	3.0	12	8	100	0.035	5	2
	PDZ437	20.0	4.0	11	8	100	0.035	4	N/A
PDZ320		20.0	4.0	12	8	100	0.035	4	N/A
PDZ657	PDZ737	20.0	4.0	12	8	100	0.035	5	2
PDZ678		20.0	4.5	11	10	110	0.035	5	2
	PDZ438	20.0	5.0	11	8	100	0.035	4	N/A
PDZ360		20.0	5.0	12	8	100	0.035	4	N/A
PDZ658	PDZ738	20.0	5.0	12	8	100	0.035	5	2
	PDZ439	20.0	6.0	11	8	100	0.035	4	N/A
PDZ659	PDZ739	20.0	6.0	12	8	100	0.035	5	2
S0005		20.0	6.0	12	9	100	0.035	4	N/A
S0080		20.0	8.0	12	9	100	0.035	4	N/A
	PDZ440	22.0	3.0	11	9	100	0.035	3	N/A
PDZ660	PDZ740	22.0	3.0	12	9	100	0.035	4	2
	PDZ441	22.0	4.0	11	9	100	0.035	3	N/A
PDZ338		22.0	4.0	12	9	100	0.035	3	N/A
PDZ661	PDZ741	22.0	4.0	12	9	100	0.035	4	2
PDZ679		22.0	4.5	12	10	110	0.035	4	2
	PDZ442	22.0	5.0	11	9	100	0.035	3	N/A
PDZ662	PDZ742	22.0	5.0	12	9	100	0.035	4	2
	PDZ443	22.0	6.0	11	9	100	0.035	3	N/A
S0006		22.0	6.0	12	9	100	0.035	3	N/A
PDZ663	PDZ743	22.0	6.0	12	9	100	0.035	4	2
S0081		22.0	8.0	12	9	100	0.035	3	N/A
	PDZ744	23.0	3.0	13	9	100	0.035	4	2
PDZ664		23.0	3.0	14	9	100	0.035	4	2
	PDZ745	23.0	4.0	13	9	100	0.035	4	2
PDZ665		23.0	4.0	14	9	100	0.035	4	2
PDZ682		23.0	4.5	12	10	110	0.035	4	2
S0016		23.0	5.0	12	9	100	0.035	3	N/A
	PDZ746	23.0	5.0	13	9	100	0.035	4	2
PDZ666		23.0	5.0	14	9	100	0.035	4	2
	PDZ747	23.0	6.0	13	9	100	0.035	4	2
PDZ667		23.0	6.0	14	9	100	0.035	4	2
S0089		24.0	3.0	12	9	100	0.035	3	N/A
S0059		24.0	4.0	12	9	100	0.035	3	N/A
PDZ397		24.0	5.0	12	9	100	0.035	3	N/A
S0040		25.0	2.0	14	9	100	0.035	4	2
S0056	PDZ444	25.0	3.0	12	9	100	0.035	3	N/A
PDZ668	PDZ748	25.0	3.0	14	9	100	0.035	4	2
PDZ339	PDZ445	25.0	4.0	12	9	100	0.035	3	N/A

Z-MED™	Z-MED™-X	Balloon Diameter	Balloon Length	Introducer Size	Shaft Size	Usable Length	Guide Wire	Rated Burst	Nominal Pressure
Z-MED TM II	Z-MED TM II-X	(mm)	(cm)	(FR)	(FR)	(cm)	(Inches)	(ATM)	(ATM)
PDZ669	PDZ749	25.0	4.0	14	9	100	0.035	4	2
PDZ680		25.0	4.5	12	10	110	0.035	4	2
PDZ362	PDZ446	25.0	5.0	12	9	100	0.035	3	N/A
PDZ670	PDZ750	25.0	5.0	14	9	100	0.035	4	2
PDZ374	PDZ447	25.0	6.0	12	9	100	0.035	3	N/A
PDZ671	PDZ751	25.0	6.0	14	9	100	0.035	4	2
S0082		25.0	8.0	12	9	100	0.035	3	N/A
S0061		26.0	2.0	12	9	100	0.035	3	N/A
PDZ672		26.0	2.0	14	9	100	0.035	4	2
S0060		26.0	4.0	12	9	100	0.035	3	N/A
S0070		26.0	4.0	14	9	100	0.035	4	2
PDZ683		26.0	4.5	13	10	110	0.035	4	2
S0087		26.0	6.0	12	9	100	0.035	3	N/A
PDZ673		28.0	2.0	16	11	100	0.035	3.5	2
	PDZ448	28.0	3.0	12	9	100	0.035	2	N/A
PDZ387	PDZ449	28.0	4.0	12	9	100	0.035	2	N/A
S0071	PDZ752	28.0	4.0	16	11	100	0.035	3.5	2
PDZ684	DD7450	28.0	4.5	14	11	110	0.035	3.5	2
	PDZ450	28.0	5.0	12	9	100	0.035	2	N/A
0000	PDZ451	28.0	6.0	12	9	100	0.035	2	N/A
S0088		28.0	6.0	12	9	100	0.035	2	N/A
S0096		28.0	8.0	12	9	100	0.035	2	N/A 2
PDZ674	PDZ452	30.0	2.0 3.0	16 13	9	100	0.035	2	N/A
	PDZ452	30.0	4.0	13	9	100	0.035	2	N/A
S0072	PDZ753	30.0	4.0	16	11	100	0.035	3	2
PDZ685	FDZ133	30.0	4.5	14	11	110	0.035	3	2
1 02000	PDZ454	30.0	5.0	13	9	100	0.035	2	N/A
S0079	1 02707	30.0	5.0	16	11	100	0.035	3	2
00010	PDZ455	30.0	6.0	13	9	100	0.035	2	N/A
PDZ394	1 52 100	30.0	6.0	14	9	100	0.035	2	N/A
S0013		30.0	6.0	14	9	100	0.035	2	N/A
PDZ675		30.0	6.0	16	11	100	0.035	3	2
S0083		30.0	8.0	14	9	100	0.035	2	N/A
PDZ677		30.0	10.0	16	11	100	0.035	3	2
50099		33.0	2.0	16	11	100	0.035	1.5	N/A
50073		33.0	4.0	16	11	100	0.035	1.5	N/A
S0074		33.0	6.0	16	11	100	0.035	1.5	N/A
S0075		35.0	4.0	16	11	100	0.035	1.5	N/A
S0076		35.0	6.0	16	11	100	0.035	1.5	N/A
S0077		40.0	4.0	16	11	100	0.035	1	N/A
S0078		40.0	6.0	16	11	100	0.035	1	N/A

other usable lengths available

	ine								
TYSHAK®	TYSHAK® MINI	Balloon Diameter	Balloon Length	Introducer Size	Shaft Size	Usable Length	Guide Wire	Rated Burst	Nominal Pressure
TYSHAK® II	TYSHAK-X™	(mm)	(cm)	(FR)	(FR)	(cm)	(Inches)	(ATM)	(ATM)
DC162	00005	2.0	1.0	4	3.5	70	0.018	10	N/A
D0004	S0095	4.0	1.0	3	2.5	65	0.014	6	4.5
PDC001		4.0	1.0	4	3.5	70	0.018	5	N/A
	PDC400	4.0	2.0	3	2.5	65	0.014	6	4.5
PDC021		4.0	2.0	4	3.5	70	0.018	5	N/A
PDC500		4.0	2.0	4	4	70	0.021	6	4.5
SN003		4.0	2.0	4	4	100	0.021	6	4.5
PDC172		4.0	2.0	5	4	70	0.018	5	N/A
DC138		4.0	2.0	6	5.5	100	0.035	5	N/A
DC141		4.0	3.0	6	5.5	100	0.035	5	N/A
DC551		4.0	10.0	4	4	70	0.021	6	4.5
	S0097	5.0	1.0	3	2.5	65	0.014	6	4.5
PDC002		5.0	1.0	4	3.5	70	0.018	5	N/A
	PDC401	5.0	2.0	3	2.5	65	0.014	6	4.5
PDC073		5.0	2.0	4	3.5	70	0.018	5	N/A
PDC501		5.0	2.0	4	4	70	0.021	6	4.5
SN004		5.0	2.0	4	4	100	0.021	6	4.5
DC003		5.0	2.0	6	5.5	70	0.035	5	N/A
PDC029		5.0	2.0	6	5.5	100	0.035	5	N/A
DC022		5.0	3.0	4	3.5	70	0.018	5	N/A
80020		5.0	3.0	4	4	70	0.021	6	4.5
PDC049		5.0	4.0	4	3.5	90	0.018	5	N/A
PDC035		5.0	4.0	5	4	70	0.018	5	N/A
D 0000	S0098	6.0	1.0	3	2.5	65	0.014	4	3.5
PDC004	00000	6.0	1.0	4	3.5	70	0.018	5	N/A
PDC173		6.0	1.5	4	3.5	70	0.018	5	N/A
00173	PDC402	6.0	2.0	3	2.5	65	0.014	4	3.5
PDC061	1 00402	6.0	2.0	4	3.5	70	0.014	5	N/A
PDC502		6.0	2.0	4	4	70	0.018		3.5
								4	
SN005		6.0	2.0	4	4	100	0.021	4	3.5
PDC088		6.0	2.0	5	4	70	0.021	5	N/A
PDC062		6.0	2.0	5	5	70	0.025	5	N/A
PDC005		6.0	2.0	6	5.5	70	0.035	5	N/A
PDC174		6.0	2.0	6	5.5	70	0.018	5	N/A
PDC030		6.0	2.0	6	5.5	100	0.035	5	N/A
DC156		6.0	3.0	4	3.5	70	0.018	5	N/A
0021		6.0	3.0	4	4	70	0.021	4	3.5
DC023		6.0	3.0	6	5	70	0.025	5	N/A
DC202		6.0	3.0	6	5.5	100	0.035	5	N/A
DC087		6.0	4.0	5	5	90	0.025	5	N/A
PDC036		6.0	4.0	6	5	70	0.025	5	N/A
DC102		6.0	5.0	6	5.5	70	0.035	5	N/A
DC050		6.0	6.0	6	5	90	0.025	5	N/A
DC103		6.0	8.0	6	5.5	100	0.035	5	N/A

TYSHAK® L	ine								
TYSHAK®	TYSHAK® MINI	Balloon Diameter	Balloon Length	Introducer Size	Shaft Size	Usable Length	Guide Wire	Rated Burst	Nominal Pressure
TYSHAK® II	TYSHAK-X™	(mm)	(cm)	(FR)	(FR)	(cm)	(Inches)	(ATM)	(ATM)
	S0101	7.0	1.0	3	2.5	65	0.014	4	3.5
PDC006		7.0	1.0	5	4	70	0.021	5	N/A
	PDC403	7.0	2.0	3	2.5	65	0.014	4	3.5
PDC175		7.0	2.0	4	3.5	70	0.018	5	N/A
PDC503		7.0	2.0	4	4	70	0.021	4	3.5
SN006		7.0	2.0	4	4	100	0.021	4	3.5
PDC109		7.0	2.0	5	4	70	0.021	5	N/A
PDC126		7.0	2.0	5	4	70	0.018	5	N/A
PDC176		7.0	2.0	6	5.5	70	0.025	5	N/A
PDC124		7.0	2.0	7	6	75	0.035	5	N/A
PDC509		7.0	3.0	4	4	70	0.021	4	3.5
SN010		7.0	3.0	4	4	100	0.021	4	3.5
PDC118		7.0	3.0	5	4	70	0.021	5	N/A
PDC157		7.0	3.0	5	4	70	0.018	5	N/A
PDC024		7.0	3.0	6	5.5	70	0.025	5	N/A
PDC037		7.0	4.0	6	5	70	0.025	5	N/A
	S0102	8.0	1.0	3	2.5	65	0.014	4	3.5
PDC007	00.00	8.0	1.5	5	5	70	0.021	5	N/A
2000.	PDC404	8.0	2.0	3	2.5	65	0.014	4	3.5
PDC504	, 20.01	8.0	2.0	4	4	70	0.021	4	3.5
SN007		8.0	2.0	4	4	100	0.021	4	3.5
PDC127		8.0	2.0	5	4	70	0.018	5	N/A
PDC177		8.0	2.0	5	5	70	0.025	5	N/A
PDC063		8.0	2.0	6	5.5	70	0.025	5	N/A
PDC045		8.0	2.0	6	5.5	100	0.035	5	N/A
20010	PDC300	8.0	2.0	6	6	100	0.035	5	N/A
PDC510	1 20000	8.0	3.0	4	4	70	0.021	4	3.5
SN011		8.0	3.0	4	4	100	0.021	4	3.5
PDC178		8.0	3.0	5	4	70	0.025	5	N/A
PDC115		8.0	3.0	5	5	70	0.018	5	N/A
PDC025		8.0	3.0	6	5.5	70	0.035	5	N/A
PDC031		8.0	3.0	6	5.5	70	0.025	5	N/A
PDC008		8.0	3.0	6	5.5	100	0.025	5	N/A
20000	PDC301	8.0	3.0	6	6	100	0.035	5	N/A
50029	1 0000 1	8.0	4.0	4	4	70	0.033	4	3.5
PDC179		8.0	4.0	5	5	70	0.021	5	0.5 N/A
PDC038		8.0	4.0	6	5	70	0.025	5	N/A
DC036		8.0	4.0	6	5.5	70	0.025	5	N/A N/A
PDC051		8.0	4.0	6	5.5	100	0.025	5	N/A N/A
חסטסו	DDC202								
20022	PDC302	8.0	4.0	6	6	100	0.035	5	N/A
S0032		8.0	5.0	4		70	0.021	4	3.5
60011	DDCCCC	8.0	5.0	6	5.5	70	0.035	5	N/A
20000	PDC303	8.0	5.0	6	6	100	0.035	5	N/A
S0030		8.0	6.0	4	4	70	0.021	4	3.5

TYSHAK® TYSHAK® II	TYSHAK® MINI	Dallaga							
I YSHAK® II	TVOLIAIZ VIIM	Balloon Diameter	Balloon Length	Introducer Size	Shaft Size	Usable Length	Guide Wire	Rated Burst	Nominal Pressure
	TYSHAK-X™	(mm)	(cm)	(FR)	(FR)	(cm)	(Inches)	(ATM)	(ATM)
PDC052		8.0	6.0	6	5.5	70	0.025	5	N/A
PDC068		8.0	6.0	6	5.5	100	0.035	5	N/A
	PDC304	8.0	6.0	6	6	100	0.035	5	N/A
PDC147		8.0	8.0	6	5	100	0.021	5	N/A
PDC069		8.0	8.0	6	5.5	100	0.035	5	N/A
	S0103	9.0	1.0	4	3.5	65	0.014	3.5	3
	PDC405	9.0	2.0	4	3.5	65	0.014	3.5	3
S0007		9.0	2.0	5	5	90	0.025	3.5	3
SN012		9.0	2.0	5	5	100	0.025	5	N/A
PDC009		9.0	2.0	6	5.5	70	0.025	5	N/A
PDC113		9.0	2.0	6	5.5	100	0.035	5	N/A
	PDC305	9.0	2.0	6	6	100	0.035	5	N/A
PDC505		9.0	3.0	5	5	90	0.025	3.5	3
SN008		9.0	3.0	5	5	100	0.025	3.5	3
PDC116		9.0	3.0	6	5	70	0.018	5	N/A
PDC026		9.0	3.0	6	5.5	70	0.035	5	N/A
PDC180		9.0	3.0	6	5.5	70	0.025	5	N/A
	PDC306	9.0	3.0	6	6	100	0.035	5	N/A
	PDC407	9.0	4.0	4	3.5	65	0.014	3.5	3
PDC086		9.0	4.0	6	5.5	100	0.035	5	N/A
	PDC307	9.0	4.0	6	6	100	0.035	5	N/A
	PDC308	9.0	5.0	6	6	100	0.035	5	N/A
	PDC309	9.0	6.0	6	6	100	0.035	5	N/A
	S0104	10.0	1.0	4	3.5	65	0.014	3.5	3
	PDC406	10.0	2.0	4	3.5	65	0.014	3.5	3
S0003		10.0	2.0	5	5	90	0.025	3.5	3
PDC010		10.0	2.0	6	5.5	85	0.025	5	N/A
PDC064		10.0	2.0	6	5.5	85	0.035	5	N/A
PDC114		10.0	2.0	6	5.5	100	0.035	5	N/A
	PDC310	10.0	2.0	6	6	100	0.035	5	N/A
PDC181		10.0	2.0	7	6	100	0.035	5	N/A
PDC506		10.0	3.0	5	5	90	0.025	3.5	3
SN009		10.0	3.0	5	5	100	0.025	3.5	3
PDC130		10.0	3.0	6	4	70	0.018	5	N/A
PDC163		10.0	3.0	6	5.5	70	0.025	5	N/A
PDC117		10.0	3.0	6	5.5	100	0.025	5	N/A
PDC081		10.0	3.0	6	6	80	0.025	5	N/A
PDC080		10.0	3.0	6	6	100	0.025	5	N/A
20000	PDC311	10.0	3.0	6	6	100	0.025	5	N/A
PDC164	100011	10.0	3.0	7	6	85	0.035	5	N/A
PDC011		10.0	3.0	7	6	100	0.025	5	N/A N/A
DOUT	DDC400								
20001	PDC408	10.0	4.0	4	3.5	65	0.014	3.5	3
S0001		10.0	4.0	5 6	5 5.5	90 70	0.025 0.025	3.5 5	3 N/A

TYSHAK® L	ine								
TYSHAK®	TYSHAK® MINI	Balloon Diameter	Balloon Length	Introducer Size	Shaft Size	Usable Length	Guide Wire	Rated Burst	Nominal Pressure
TYSHAK® II	TYSHAK-X™	(mm)	(cm)	(FR)	(FR)	(cm)	(Inches)	(ATM)	(ATM)
PDC053		10.0	4.0	6	5.5	100	0.025	5	N/A
PDC182		10.0	4.0	6	5.5	100	0.035	5	N/A
	PDC312	10.0	4.0	6	6	100	0.035	5	N/A
PDC012		10.0	4.0	7	6	100	0.035	5	N/A
S0031		10.0	5.0	5	5	90	0.025	3.5	3
PDC132		10.0	5.0	6	5	70	0.025	5	N/A
PDC089		10.0	5.0	6	5.5	85	0.025	5	N/A
	PDC313	10.0	5.0	6	6	100	0.035	5	N/A
PDC047		10.0	5.0	7	6	100	0.035	5	N/A
PDC054		10.0	6.0	6	5.5	100	0.035	5	N/A
PDC055		10.0	6.0	6	5.5	100	0.025	5	N/A
S0009		10.0	6.0	6	6	100	0.025	3.5	3
	PDC314	10.0	6.0	6	6	100	0.035	5	N/A
PDC183		10.0	6.0	7	6	100	0.035	5	N/A
PDC146		10.0	8.0	6	5	100	0.025	5	N/A
PDC074		10.0	8.0	7	6	100	0.025	5	N/A
PDC129		10.0	8.0	7	6	100	0.035	5	N/A
PDC075		10.0	10.0	7	6	100	0.025	5	N/A
PDC090		10.0	10.0	7	6	100	0.035	5	N/A
S0086		11.0	2.0	5	5	90	0.025	3.5	3
SN11290		11.0	2.0	5	5	90	0.025	3.5	3
S0017		11.0	3.0	5	5	90	0.025	3.5	3
PDC150		11.0	3.0	6	5	70	0.018	4.5	N/A
PDC159		11.0	3.0	7	6	100	0.035	4.5	N/A
S0002		11.0	4.0	5	5	90	0.025	3.5	3
S0008		12.0	2.0	5	5	90	0.025	3.5	3
S0014		12.0	2.0	6	6	90	0.035	3.5	3
S0100		12.0	2.0	6	6	100	0.035	3.5	3
PDC166		12.0	2.0	7	5.5	85	0.025	4.5	N/A
PDC148		12.0	2.0	7	5.5	100	0.025	4.5	N/A
PDC186		12.0	2.0	7	5.5	100	0.025	4.5	N/A
PDC167		12.0	2.0	7	6	85	0.035	4.5	N/A
PDC032	PDC315	12.0	2.0	7	6	100	0.025	4.5	N/A
PDC032	100010	12.0	2.5	7	5.5	85	0.035	4.5	N/A
PDC184		12.0	2.5	7	5.5	100	0.025	4.5	N/A
PDC184 PDC013		12.0	2.5	7	6	85	0.035	4.5	N/A
PDC013 PDC185		12.0		7	6	100		4.5	N/A N/A
			2.5				0.035		
PDC507		12.0	3.0	5	5	90	0.025	3.5	3
PDC169		12.0	3.0	7	5.5	85	0.025	4.5	N/A
PDC149		12.0	3.0	7	5.5	100	0.025	4.5	N/A
PDC188		12.0	3.0	7	5.5	100	0.035	4.5	N/A
PDC170		12.0	3.0	7	6	85	0.025	4.5	N/A
PDC014		12.0	3.0	7	6	100	0.035	4.5	N/A
PDC133		12.0	3.0	7	6	100	0.025	4.5	N/A

TYSHAK®	TYSHAK® MINI	Balloon	Balloon	Introducer	Shaft	Usable	Guide	Rated	Nominal
TYSHAK® II	TYSHAK-XTM	Diameter	Length	Size	Size	Length	Wire	Burst	Pressure
	TTSHAN-A ····	(mm)	(cm)	(FR)	(FR)	(cm)	(Inches)	(ATM)	(ATM)
PDC079	DD 0040	12.0	3.0	7	6	100	0.035	4.5	N/A
	PDC316	12.0	3.0	7	6	100	0.035	4.5	N/A
PDC168		12.0	3.5	7	5.5	85	0.025	4.5	N/A
PDC187		12.0	3.5	7	5.5	100	0.035	4.5	N/A
PDC508		12.0	4.0	6	6	90	0.035	3.5	3
PDC171		12.0	4.0	7	5.5	85	0.025	4.5	N/A
DC015		12.0	4.0	7	6	100	0.035	4.5	N/A
DC134		12.0	4.0	7	6	100	0.025	4.5	N/A
	PDC317	12.0	4.0	7	6	100	0.035	4.5	N/A
60033		12.0	5.0	5	5	90	0.025	3.5	3
DC039	PDC318	12.0	5.0	7	6	100	0.035	4.5	N/A
60004		12.0	6.0	6	6	90	0.035	3.5	3
DC056	PDC319	12.0	6.0	7	6	100	0.035	4.5	N/A
DC057		12.0	7.0	7	6	100	0.035	4.5	N/A
PDC091		12.0	8.0	7	6	100	0.035	4.5	N/A
0015		12.0	10.0	7	6	100	0.035	4.5	N/A
80035		13.0	2.0	6	6	100	0.035	3	2.5
80036		13.0	3.0	6	6	100	0.035	3	2.5
0010		13.0	3.0	7	6	100	0.035	4	N/A
60034		13.0	4.0	6	6	100	0.035	3	2.5
DC152		13.0	4.0	7	6	100	0.035	4	N/A
PDC098		13.0	5.0	7	6	100	0.035	4	N/A
80069		13.0	5.0	6	6	100	0.035	3	2.5
PDC078		13.0	5.0	7	6	100	0.035	4	N/A
PDC158		13.0	6.0	7	6	100	0.035	4	N/A
30018		14.0	2.0	7	7	100	0.035	3	2
PDC511		14.0	3.0	7	7	100	0.035	3	2
PDC190	PDC320	14.0	3.0		7	100	0.035	3.5	N/A
DC190 DC189	1 00320	14.0	3.5	8	7	100	0.035	3.5	N/A N/A
PDC191		14.0	4.0	7	6	100	0.035	3.5	N/A
DC512		14.0	4.0	7	7	100	0.035	3	2
PDC107	DD 0004	14.0	4.0	8	6	100	0.035	3.5	N/A
DC192	PDC321	14.0	4.0	8	7	100	0.035	3.5	N/A
DC513	DD COOK	14.0	5.0	7	7	100	0.035	3	2
D04==	PDC322	14.0	5.0	8	7	100	0.035	3.5	N/A
DC153		14.0	5.0	9	7	100	0.035	3.5	N/A
DC514		14.0	6.0	7	7	100	0.035	3	2
DC193	PDC323	14.0	6.0	8	7	100	0.035	3.5	N/A
0019		14.0	8.0	7	7	100	0.035	3	2
DC095		15.0	2.0	7	6	100	0.035	3.5	N/A
DC033		15.0	2.0	8	7	100	0.035	3.5	N/A
DC515		15.0	3.0	7	7	100	0.035	3	2
DC016	PDC324	15.0	3.0	8	7	100	0.035	3.5	N/A
DC516		15.0	4.0	7	7	100	0.035	3	2

TYSHAK® L	ine								
TYSHAK® TYSHAK® II	TYSHAK® MINI TYSHAK-X™	Balloon Diameter	Balloon Length	Introducer Size	Shaft Size	Usable Length	Guide Wire	Rated Burst	Nominal Pressure
PDC046		(mm)	(cm) 4.0	(FR) 8	(FR)	(cm) 100	(Inches)	(ATM)	(ATM) N/A
PDC046 PDC128	PDC325	15.0					0.035	3.5	
		15.0	4.0	9	8	100	0.035	3.5	N/A
PDC517	DDCCCC	15.0	5.0	7	7	100	0.035	3	2
PDC040	PDC326	15.0	5.0	8		100	0.035	3.5	N/A
PDC518	DD0007	15.0	6.0	7	7	100	0.035	3	2
PDC058	PDC327	15.0	6.0	8	7	100	0.035	3.5	N/A
PDC119		15.0	7.0	8	7	100	0.035	3.5	N/A
PDC121		15.0	7.0	8	7	100	0.035	3.5	N/A
PDC092		15.0	8.0	8	7	100	0.035	3.5	N/A
PDC070		15.0	10.0	8	7	100	0.035	3.5	N/A
SN002		16.0	2.0	7	7	100	0.035	2.5	2
PDC519		16.0	3.0	7	7	100	0.035	2.5	2
PDC195	PDC328	16.0	3.0	8	7	100	0.035	3.5	N/A
PDC194		16.0	3.5	8	7	100	0.035	3.5	N/A
PDC520		16.0	4.0	7	7	100	0.035	2.5	2
PDC196	PDC329	16.0	4.0	8	7	100	0.035	3.5	N/A
PDC521		16.0	5.0	7	7	100	0.035	2.5	2
	PDC330	16.0	5.0	8	7	100	0.035	3.5	N/A
PDC522		16.0	6.0	7	7	100	0.035	2.5	2
PDC197	PDC331	16.0	6.0	8	7	100	0.035	3.5	N/A
PDC144		16.0	6.0	9	7	100	0.035	3.5	N/A
S0037		16.0	8.0	7	7	100	0.035	2.5	2
PDC125		16.0	9.0	9	7	100	0.035	3.5	N/A
PDC523		17.0	3.0	7	7	100	0.035	2.5	2
PDC524		17.0	4.0	7	7	100	0.035	2.5	2
PDC525		17.0	5.0	7	7	100	0.035	2.5	2
S0012		17.0	5.0	9	7	100	0.035	2	N/A
PDC526		17.0	6.0	7	7	100	0.035	2.5	2
PDC151		17.0	6.0	9	7	100	0.035	2	N/A
S0038		17.0	8.0	7	7	100	0.035	2.5	2
PDC123		17.0	8.0	9	8	100	0.035	2	N/A
PDC094		18.0	2.0	8	7	100	0.035	2	N/A
PDC034		18.0	2.0	9	8	100	0.035	2	N/A
PDC527		18.0	3.0	8	8	100	0.035	2	1.5
PDC017	PDC332	18.0	3.0	9	8	100	0.035	2	N/A
PDC528	1 00002	18.0	4.0	8		100	0.035		1.5
					8	80		2	
PDC122		18.0	4.0	9			0.035	2	N/A
PDC097	DDCCCC	18.0	4.0	9	8	85	0.035	2	N/A
PDC076	PDC333	18.0	4.0	9	8	100	0.035	2	N/A
PDC529	DD COO.	18.0	5.0	8	8	100	0.035	2	1.5
PDC041	PDC334	18.0	5.0	9	8	100	0.035	2	N/A
PDC530	BB 00	18.0	6.0	8	8	100	0.035	2	1.5
PDC027	PDC335	18.0	6.0	9	8	100	0.035	2	N/A
PDC093		18.0	8.0	9	8	100	0.035	2	N/A

TYSHAK® Li	ine								
TYSHAK®	TYSHAK® MINI	Balloon Diameter	Balloon Length	Introducer Size	Shaft Size	Usable Length	Guide Wire	Rated Burst	Nominal Pressure
TYSHAK® II	TYSHAK-X™	(mm)	(cm)	(FR)	(FR)	(cm)	(Inches)	(ATM)	(ATM)
PDC135		18.0	8.0	9	8	100	0.035	2	N/A
PDC059		18.0	10.0	10	8	100	0.035	2	N/A
PDC136		19.0	6.0	9	8	100	0.035	2	N/A
PDC099		19.0	9.0	9	8	100	0.035	2	N/A
PDC137		19.0	9.0	9	8	100	0.035	2	N/A
SN001		20.0	2.0	8	8	100	0.035	2	1.5
PDC531		20.0	3.0	8	8	100	0.035	2	1.5
PDC042	PDC336	20.0	3.0	10	8	100	0.035	2	N/A
PDC532		20.0	4.0	8	8	100	0.035	2	1.5
PDC198		20.0	4.0	9	8	100	0.035	2	N/A
PDC018	PDC337	20.0	4.0	10	8	100	0.035	2	N/A
PDC533		20.0	5.0	8	8	100	0.035	2	1.5
PDC048	PDC338	20.0	5.0	10	8	100	0.035	2	N/A
PDC534		20.0	6.0	8	8	100	0.035	2	1.5
PDC199		20.0	6.0	9	8	100	0.035	2	N/A
PDC028	PDC339	20.0	6.0	10	8	100	0.035	2	N/A
PDC140		20.0	8.0	9	8	100	0.035	2	N/A
PDC104		20.0	8.0	10	8	100	0.035	2	N/A
PDC100		20.0	9.0	9	8	100	0.035	2	N/A
PDC111		20.0	9.0	9	8	100	0.035	2	N/A
PDC060		20.0	10.0	10	8	100	0.035	2	N/A
SN013		22.0	2.0	8	8	100	0.035	2	1.5
PDC535		22.0	3.0	8	8	100	0.035	2	1.5
	PDC340	22.0	3.0	10	9	100	0.035	2	N/A
PDC065		22.0	3.0	11	9	100	0.035	2	N/A
PDC536		22.0	4.0	8	8	100	0.035	2	1.5
	PDC341	22.0	4.0	10	9	100	0.035	2	N/A
PDC019		22.0	4.0	11	9	100	0.035	2	N/A
PDC537		22.0	5.0	8	8	100	0.035	2	1.5
	PDC342	22.0	5.0	10	9	100	0.035	2	N/A
PDC108		22.0	5.5	10	9	100	0.035	2	N/A
PDC538		22.0	6.0	8	8	100	0.035	2	1.5
PDC200	PDC343	22.0	6.0	10	9	100	0.035	2	N/A
PDC131		22.0	6.0	11	7	100	0.035	2	N/A
PDC139		22.0	6.0	11	9	100	0.035	2	N/A
PDC539		23.0	3.0	9	9	100	0.035	2	1.5
PDC540		23.0	4.0	9	9	100	0.035	2	1.5
PDC541		23.0	5.0	9	9	100	0.035	2	1.5
PDC120		23.0	5.5	11	9	100	0.035	2	N/A
PDC542		23.0	6.0	9	9	100	0.035	2	1.5
PDC145		23.0	6.0	11	9	100	0.035	2	N/A
PDC543		25.0	3.0	9	9	100	0.035	1.5	1
	PDC344	25.0	3.0	11	9	100	0.035	1.5	N/A
PDC544		25.0	4.0	9	9	100	0.035	1.5	1

TYSHAK® Line											
TYSHAK® TYSHAK® II	TYSHAK® MINI TYSHAK-X™	Balloon Diameter (mm)	Balloon Length (cm)	Introducer Size (FR)	Shaft Size (FR)	Usable Length (cm)	Guide Wire (Inches)	Rated Burst (ATM)	Nominal Pressure (ATM)		
PDC020	PDC345	25.0	4.0	11	9	100	0.035	1.5	N/A		
PDC545		25.0	5.0	9	9	100	0.035	1.5	1		
	PDC346	25.0	5.0	11	9	100	0.035	1.5	N/A		
PDC546		25.0	6.0	9	9	100	0.035	1.5	1		
PDC201		25.0	6.0	10	9	100	0.035	1.5	N/A		
PDC072	PDC347	25.0	6.0	11	9	100	0.035	1.5	N/A		
PDC547		30.0	3.0	10	9	100	0.035	1.5	1		
PDC548		30.0	4.0	10	9	100	0.035	1.5	1		
PDC549		30.0	5.0	10	9	100	0.035	1.5	1		
PDC550		30.0	6.0	10	9	100	0.035	1.5	1		
PDC552		30.0	10.0	10	9	100	0.035	1.5	1		

other usable lengths available

NuCLEUST	⁴ Line							
NuCLEUS™ TYSHAK NuCLEUS™	NuCLEUS-X™	Balloon Diameter (mm)	Balloon Length (cm)	Introducer Size (FR)	Shaft Size (FR)	Usable Length (cm)	Guide Wire (Inches)	Rated Burst (ATM)
TN001		4.0	2.0	6	5,5	100	0.035	5
TN002		4.0	3.0	6	5,5	100	0.035	5
TN003		5.0	2.0	6	5,5	100	0.035	5
TN004		5.0	3.0	6	5,5	100	0.035	5
ΓN005		5.0	4.0	6	5,5	100	0.035	5
ΓN006		6.0	2.0	6	5,5	100	0.035	5
ΓN007		6.0	3.0	6	5,5	100	0.035	5
ΓN008		6.0	4.0	6	5,5	100	0.035	5
TN009		7.0	2.0	6	5,5	100	0.035	5
ΓN010		7.0	3.0	6	5,5	100	0.035	5
ΓN011		7.0	4.0	6	5,5	100	0.035	5
ΓN012		8.0	2.0	6	5,5	100	0.035	5
ΓN013		8.0	3.0	6	5,5	100	0.035	5
ΓN014		8.0	4.0	6	5,5	100	0.035	5
ΓN015		9.0	2.0	6	5,5	100	0.035	5
N016		9.0	3.0	6	5,5	100	0.035	5
N017		9.0	4.0	6	5,5	100	0.035	5
N018		10.0	2.0	7	6	100	0.035	5
ΓN019		10.0	3.0	7	6	100	0.035	5
ΓN020		10.0	4.0	7	6	100	0.035	5
PVN218		10.0	3.0	7	6	110	0.035	9
PVN219		10.0	4.0	7	6	110	0.035	9
PVN236		10.0	5.0	7	6	110	0.035	9
PVN237		10.0	6.0	7	6	110	0.035	9
ΓN021		12.0	2.0	7	6	100	0.035	4,5
ΓN022		12.0	3.0	7	6	100	0.035	4,5
TN023		12.0	4.0	7	6	100	0.035	4,5
PVN220		12.0	3.0	7	6	110	0.035	7
PVN221		12.0	3.0	8	6	110	0.035	7
PVN222		12.0	4.0	7	6	110	0.035	7
VN223		12.0	4.0	8	6	110	0.035	7
PVN238		12.0	5.0	8	6	110	0.035	7
PVN239		12.0	6.0	8	6	110	0.035	7
N024		14.0	3.0	8	6	100	0.035	3,5
TN025		14.0	4.0	8	6	100	0.035	3,5
VN224		14.0	3.0	9	7	110	0.035	6
PVN225		14.0	4.0	9	7	110	0.035	6
PVN240		14.0	5.0	9	7	110	0.035	6
PVN241		14.0	6.0	9	7	110	0.035	6
TN026		15.0	3.0	8	7	100	0.035	3,5
ΓN027		15.0	4.0	8	7	100	0.035	3,5
TN028		16.0	3.0	8	7	100	0.035	3,5
N029		16.0	4.0	8	7	100	0.035	3,5
PVN226		16.0	3.0	9	7	110	0.035	5

NuCLEUS™	NuCLEUS-X™	Balloon	Balloon	Introducer	Shaft	Usable	Guide	Rated
TYSHAK		Diameter	Length	Size	Size	Length	Wire	Burst
NuCLEUS™		(mm)	(cm)	(FR)	(FR)	(cm)	(Inches)	(ATM)
PVN227		16.0	4.0	9	7	110	0.035	5
PVN242		16.0	5.0	9	7	110	0.035	5
PVN243		16.0	6.0	9	7	110	0.035	5
TN030		18.0	3.0	9	8	100	0.035	3
TN031		18.0	4.0	9	8	100	0.035	3
PVN228		18.0	3.0	10	8	110	0.035	4
PVN229		18.0	4.0	10	8	110	0.035	4
PVN244		18.0	5.0	10	8	110	0.035	4
PVN245		18.0	6.0	10	8	110	0.035	4
	PVN400	18.0	4.0	10	9	110	0.035	4
	PVN401	18.0	5.0	10	9	110	0.035	4
	PVN402	18.0	6.0	10	9	110	0.035	4
ΓN032		20.0	3.0	10	8	100	0.035	2
ΓN033		20.0	4.0	10	8	100	0.035	2
PVN230		20.0	4.0	12	8	110	0.035	4
PVN246		20.0	5.0	12	8	110	0.035	4
PVN247		20.0	6.0	12	8	110	0.035	4
	PVN403	20.0	4.0	12	9	110	0.035	4
	PVN404	20.0	5.0	12	9	110	0.035	4
	PVN405	20.0	6.0	12	9	110	0.035	4
ΓN034	1 111 100	22.0	3.0	11	9	100	0.035	2
TN035		22.0	4.0	11	9	100	0.035	2
PVN231		22.0	4.0	12	9	110	0.035	4
PVN248		22.0	5.0	12	9	110	0.035	4
PVN249		22.0	6.0	12	9	110	0.035	4
VIVE 10	PVN406	22.0	4.0	12	9	110	0.035	3
	PVN407	22.0	5.0	12	9	110	0.035	3
	PVN408	22.0	6.0	12	9	110	0.035	3
TN036	1 111-100	25.0	3.0	11	9	100	0.035	2
TN037		25.0	4.0	11	9	100	0.035	2
PVN232		25.0	4.0	12	9	110	0.035	4
PVN250		25.0	5.0	12	9	110	0.035	4
PVN251		25.0	6.0	12	9	110	0.035	4
VINZUI	PVN409	25.0	4.0	12	9	110	0.035	3
	PVN410	25.0	5.0	12	9	110	0.035	3
	PVN410 PVN411	25.0	6.0	12	9	110	0.035	3
PVN233	r VIV 'I I I	28.0	4.0	12	9	110	0.035	2
PVN233 PVN234		28.0		14				2
		28.0	4.0		9	110	0.035	
PVN252			5.0	14	9	110	0.035	2
PVN253	DVM410	28.0	6.0	14	9	110	0.035	2
	PVN412	28.0	4.0	12	9	110	0.035	2
	PVN413	28.0	5.0	12	9	110	0.035	2
	PVN414	28.0	6.0	12	9	110	0.035	2

NuCLEUS™	¹ Line							
NuCLEUS™ TYSHAK NuCLEUS™	NuCLEUS-X [™]	Balloon Diameter (mm)	Balloon Length (cm)	Introducer Size (FR)	Shaft Size (FR)	Usable Length (cm)	Guide Wire (Inches)	Rated Burst (ATM)
PVN254		30.0	5.0	14	9	110	0.035	2
PVN255		30.0	6.0	14	9	110	0.035	2
	PVN415	30.0	4.0	14	9	110	0.035	2
	PVN416	30.0	5.0	14	9	110	0.035	2
	PVN417	30.0	6.0	14	9	110	0.035	2

other usable lengths available

Mullins-X [™]	Non-T	GA Registere	ed - SAS Onl	у			
REF	Balloon Diameter (mm)	Balloon Length (cm)	Introducer Size (FR)	Shaft Size (FR)	Usable Length (cm)	Guide Wire (Inches)	Rated Burst (ATM)
PTM440	12.0	3.0	9	7	100	0.035	14
PTM441	12.0	4.0	9	7	100	0.035	14
PTM442	14.0	3.0	10	8	100	0.035	14
PTM443	14.0	4.0	10	8	100	0.035	14
PTM444	15.0	3.0	10	8	100	0.035	13
PTM445	15.0	4.0	10	8	100	0.035	13
PTM446	16.0	3.0	11	8	100	0.035	12
PTM447	16.0	4.0	11	8	100	0.035	12
PTM448	18.0	3.0	12	8	100	0.035	12
PTM449	18.0	4.0	12	8	100	0.035	12
PTM450	20.0	3.0	13	8	100	0.035	11
PTM451	20.0	4.0	13	8	100	0.035	11
PTM452	22.0	3.0	14	9	100	0.035	10
PTM453	22.0	4.0	14	9	100	0.035	10
PTM456	23.0	3.0	14	9	100	0.035	9
PTM457	23.0	4.0	14	9	100	0.035	9
PTM454	25.0	3.0	16	9	100	0.035	9
PTM455	25.0	4.0	16	9	100	0.035	9

Z-6 TM							
REF	Balloon Diameter (mm)	Balloon Length (cm)	Introducer Size (FR)	Shaft Size (FR)	Usable Length (cm)	Guide Wire (Inches)	Maximum Volume (CC)
Z695	9.5	0.95	6	5.0	50	0.021	1
Z6135	13.5	1.35	6	5.0	50	0.021	2

MULTI-TRACE	С ТМ	Non-TGA R	n-TGA Registered - SAS Only						
REF	Introducer Size (FR)	Shaft Size (FR)	Usable Length (cm)	Guide Wire (Inches)	Flow Rate (ml/sec)	Maximum Injection (PSI)			
MMTA2560	4.0	2.5	60	0.021	3.5	1000			
MMTA2580	4.0	2.5	80	0.021	2.7	1000			
MMTA03100	5.0	3.0	100	0.025	4.0	1000			
MMTA0380	5.0	3.0	80	0.025	5.5	1000			
MMTA0360	5.0	3.0	60	0.025	6.5	1000			
MMTA04100	6.0	4.0	100	0.035	11.0	1000			
MMTA0480	6.0	4.0	80	0.035	13.0	1000			
MMTA05100	7.0	5.0	100	0.035	20.0	1000			
MMTA0580	7.0	5.0	80	0.035	22.0	1000			
MMTA06100	8.0	6.0	100	0.035	25.0	1000			

BIB® Stent F	Placement						
REF	Balloon Diameter (mm)	Balloon Length (cm)	Introducer Size (FR)	Shaft Size (FR)	Usable Length (cm)	Guide Wire (Inches)	Outer Balloon Rated Burst (ATM)
BB003	12.0	2.5	8	8	110	0.035	7
BB006	12.0	3.0	8	8	110	0.035	7
BB009	12.0	3.5	8	8	110	0.035	7
BB033	12.0	4.0	8	8	110	0.035	7
BB037	12.0	4.5	8	8	110	0.035	7
BB034	12.0	5.0	8	8	110	0.035	7
BB051	12.0	5.5	8	8	110	0.035	7
BB022	14.0	2.5	8	8	110	0.035	6
BB052	14.0	3.0	8	8	110	0.035	6
BB025	14.0	3.5	8	8	110	0.035	6
BB038	14.0	4.0	8	8	110	0.035	6
BB035	14.0	4.5	8	8	110	0.035	6
BB039	14.0	5.0	8	8	110	0.035	6
BB053	14.0	5.5	8	8	110	0.035	6
BB054	15.0	2.5	9	9	110	0.035	5
BB055	15.0	3.0	9	9	110	0.035	5
BB056	15.0	3.5	9	9	110	0.035	5
BB057	15.0	4.0	9	9	110	0.035	5
BB058	15.0	4.5	9	9	110	0.035	5
BB059	15.0	5.0	9	9	110	0.035	5
BB060	15.0	5.5	9	9	110	0.035	5
BB023	16.0	2.5	9	9	110	0.035	5
BB010	16.0	3.0	9	9	110	0.035	5
BB026	16.0	3.5	9	9	110	0.035	5
BB013	16.0	4.0	9	9	110	0.035	5
BB016	16.0	4.5	9	9	110	0.035	5
BB028	16.0	5.0	9	9	110	0.035	5
BB019	16.0	5.5	9	9	110	0.035	5
BB024	18.0	2.5	10	9	110	0.035	4
BB040	18.0	3.0	10	9	110	0.035	4
BB027	18.0	3.5	10	9	110	0.035	4
BB041	18.0	4.0	10	9	110	0.035	4
BB029		4.5	10		110	0.035	
	18.0		10	9	110		4
BB030	18.0	5.0		9		0.035	4
BB031	18.0	5.5	10	9	110	0.035	4
BB011	20.0	3.0	10	9	110	0.035	4
BB042	20.0	3.5	10	9	110	0.035	4
BB014	20.0	4.0	10	9	110	0.035	4
BB017	20.0	4.5	10	9	110	0.035	4
BB032	20.0	5.0	10	9	110	0.035	4
BB020	20.0	5.5	10	9	110	0.035	4
BB061	22.0	3.0	11	9	110	0.035	3
BB062	22.0	3.5	11	9	110	0.035	3
BB063	22.0	4.0	11	9	110	0.035	3

BIB® Stent PI	acement						
REF	Balloon Diameter (mm)	Balloon Length (cm)	Introducer Size (FR)	Shaft Size (FR)	Usable Length (cm)	Guide Wire (Inches)	Outer Balloon Rated Burst (ATM)
BB064	22.0	4.5	11	9	110	0.035	3
BB065	22.0	5.0	11	9	110	0.035	3
BB066	22.0	5.5	11	9	110	0.035	3
BB012	24.0	3.0	11	9	110	0.035	3
BB067	24.0	3.5	11	9	110	0.035	3
BB015	24.0	4.0	11	9	110	0.035	3
BB018	24.0	4.5	11	9	110	0.035	3
BB036	24.0	5.0	11	9	110	0.035	3
BB021	24.0	5.5	11	9	110	0.035	3
BB077	24.0	6.0	11	9	110	0.035	3
BB068	26.0	4.0	16	11	110	0.035	3
BB069	26.0	5.0	16	11	110	0.035	3
BB070	26.0	6.0	16	11	110	0.035	3
BB071	28.0	4.0	16	11	110	0.035	2
BB072	28.0	5.0	16	11	110	0.035	2
BB073	28.0	6.0	16	11	110	0.035	2
BB074	30.0	4.0	16	11	110	0.035	2
BB075	30.0	5.0	16	11	110	0.035	2
BB076	30.0	6.0	16	11	110	0.035	2

Bare CP Stent® an	d Covered CP Stent™			
REF Bare CP Stent	REF Covered CP Stent	Stent Length (cm)	Configuration (Number of Zigs)	Platinum Wire (Inches)
CP8Z16	CVRDCP8Z16	1.6	8	0.013
CP8Z22	CVRDCP8Z22	2.2	8	0.013
CP8Z28	CVRDCP8Z28	2.8	8	0.013
CP8Z34	CVRDCP8Z34	3.4	8	0.013
CP8Z39	CVRDCP8Z39	3.9	8	0.013
CP8Z45	CVRDCP8Z45	4.5	8	0.013
CP8Z50	CVRDCP8Z50	5.0	8	0.013
CP8Z55	CVRDCP8Z55	5.5	8	0.013
CP8Z60	CVRDCP8Z60	6.0	8	0.013
CP10Z39	CVRDCP10Z39	3.9	10	0.013
CP10Z45	CVRDCP10Z45	4.5	10	0.013
CP10Z50	CVRDCP10Z50	5.0	10	0.013
CP10Z55	CVRDCP10Z55	5.5	10	0.013
CP10Z60	CVRDCP10Z60	6.0	10	0.013

NuMED recommends using the BIB® Stent Placement Catheter.

Required Introducer Size		
BIB® delivery catheter balloon diameter and introducer size	Required introducer with Bare CP Stent®	Required introducer with Covered CP Stent™
12 mm (8F)	10F	12F
14 mm (8F)	10F	12F
15 mm (9F)	11F	12F
16 mm (9F)	11F	12F
18 mm (10F)	11F	14F
20 mm (10F)	12F	14F
22 mm (11F)	12F	14F
24 mm (11F)	12F	14F
26 mm (16F)	16F	16F
28 mm (16F)	16F	18F
30 mm (16F)	16F	18F

For choosing the right stent use the Foreshortening Chart

CP Stent®	Foreshorte	ening Chart								
Stent	Inflated	1.6 cm	2.2 cm	2.8 cm	3.4 cm	3.9 cm	4.5 cm	5.0 cm	5.5 cm	6.0 cm
Configuration (Zigs)	Balloon Diameter					Length after E ENTAGE SHO				
8	12 mm	1.61 cm 2.8 %	2.18 cm 0.8 %	2.62 cm 4.4 %	3.23 cm 3.1 %	3.72 cm 1.9 %	4.17 cm 3.8 %	4.71 cm 6.2 %	5.25 cm 5.0 %	5.84 cm 4.5 %
8	14 mm	1.54 cm 6.5 %	2.08 cm 5.4 %	2.56 cm 6.8 %	3.15 cm 5.4 %	3.66 cm 3.6 %	3.97 cm 8.4 %	3.97 cm 8.4 %	4.58 cm 8.7 %	5.11 cm 7.6 %
8	15 mm	1.51 cm 8.5 %	2.02 cm 7.9 %	2.51 cm 8.6 %	3.10 cm 7.0 %	3.54 cm 6.6 %	3.94 cm 9.2 %	4.5 cm 10.3 %	4.98 cm 10.0 %	5.55 cm 9.2 %
8	16 mm	1.48 cm 10.6 %	1.98 cm 10.1 %	2.45 cm 10.7 %	3.00 cm 9.8 %	3.48 cm 8.2 %	3.84 cm 11.4 %	4.42 cm 11.9 %	4.91 cm 11.2 %	5.43 cm 11.2 %
8	18 mm	1.43 cm 13.7 %	1.89 cm 14.0 %	2.38 cm 13.3 %	2.88 cm 13.5 %	3.20 cm 15.6 %	3.71 cm 14.5 %	4.21 cm 16.1 %	4.70 cm 15.1 %	5.20 cm 14.9 %
8	20 mm	1.32 cm 20.0 %	1.80 cm 17.9 %	2.30 cm 16.3 %	2.63 cm 20.9 %	2.96 cm 21.9 %	3.27 cm 24.7 %	3.96 cm 21.0 %	4.43 cm 20.0 %	4.92 cm 19.5 %
8	22 mm	1.23 cm 25.4 %	1.67 cm 23.9 %	2.09 cm 24.0 %	2.46 cm 26.0 %	2.85 cm 25.0 %	3.15 cm 27.3 %	3.71 cm 26.0 %	4.09 cm 26.1 %	4.55 cm 25.5 %
8	24 mm	1.05 cm 36.4 %	1.46 cm 33.8 %	1.91 cm 30.3 %	2.07 cm 37.9 %	2.27 cm 40.1 %	2.83 cm 34.9 %	3.33 cm 33.5 %	3.72 cm 32.8 %	4.14 cm 32.3 %
10	26 mm					3.17 cm 18.33 %	3.44 cm 22.09 %	4.10 cm 17.34 %	4.24 cm 23.32 %	4.85 cm 20.20 %
10	28 mm					2.96 cm 23.68 %	3.24 cm 26.75 %	3.71 cm 25.11 %	4.00 cm 27.58 %	4.39 cm 27.87 %
10	30 mm					2.58 cm 33.45 %	3.09 cm 30.16 %	3.26 cm 34.34 %	3.64 cm 34.17 %	4.11 cm 32.55 %

REF MCP	REF CMCP	Stent	Length	Outer Balloon	Outer Balloon	Shaft	Usable	Guide	Rated
	TIEL GIVIO		# of Zig	Diameter (mm)	Length (cm)	Size (FR)	Length (cm)	Wire (Inches)	Burst (ATM)
MCP001	CMCP001	1.6	8 Zig	12.0	2.5	8	110	0.035	7
MCP001	CMCP001	1.6	8 Zig	14.0	2.5	8	110	0.035	
MCP003	CMCP002	1.6	8 Zig	16.0	2.5	9	110	0.035	6 5
MCP003							110		7
MCP004 MCP005	CMCP004 CMCP005	2.2	8 Zig	12.0	2.5	8		0.035	
		2.2	8 Zig	14.0	2.5	8	110		6
MCP006	CMCP006	2.2	8 Zig	16.0	2.5	9	110	0.035	5
MCP007	CMCP007	2.2	8 Zig	18.0	2.5	9	110	0.035	4
MCP038	CMCP038	2.8	8 Zig	12.0	3.0	8	110	0.035	7
MCP008	CMCP008	2.8	8 Zig	14.0	3.0	8	110	0.035	6
MCP009	CMCP009	2.8	8 Zig	16.0	3.0	9	110	0.035	5
MCP010	CMCP010	2.8	8 Zig	18.0	3.0	9	110	0.035	4
MCP011	CMCP011	2.8	8 Zig	20.0	3.0	9	110	0.035	4
MCP035	CMCP035	3.4	8 Zig	12.0	3.5	8	110	0.035	7
MCP012	CMCP012	3.4	8 Zig	14.0	3.5	8	110	0.035	6
MCP013	CMCP013	3.4	8 Zig	16.0	3.5	9	110	0.035	5
MCP014	CMCP014	3.4	8 Zig	18.0	3.5	9	110	0.035	4
MCP015	CMCP015	3.4	8 Zig	20.0	3.5	9	110	0.035	4
MCP016	CMCP016	3.4	8 Zig	22.0	3.5	9	110	0.035	3
MCP036	CMCP036	3.9	8 Zig	12.0	4.0	8	110	0.035	7
MCP017	CMCP017	3.9	8 Zig	14.0	4.0	8	110	0.035	6
MCP018	CMCP018	3.9	8 Zig	16.0	4.0	9	110	0.035	5
MCP019	CMCP019	3.9	8 Zig	18.0	4.0	9	110	0.035	4
MCP020	CMCP020	3.9	8 Zig	20.0	4.0	9	110	0.035	4
MCP021	CMCP021	3.9	8 Zig	22.0	4.0	9	110	0.035	3
MCP022	CMCP022	3.9	8 Zig	24.0	4.0	9	110	0.035	3
MCP023	CMCP023	4.5	8 Zig	14.0	4.5	8	110	0.035	6
MCP024	CMCP024	4.5	8 Zig	16.0	4.5	9	110	0.035	5
MCP025	CMCP025	4.5	8 Zig	18.0	4.5	9	110	0.035	4
MCP026	CMCP026	4.5	8 Zig	20.0	4.5	9	110	0.035	4
MCP027	CMCP027	4.5	8 Zig	22.0	4.5	9	110	0.035	3
MCP028	CMCP028	4.5	8 Zig	24.0	4.5	9	110	0.035	3
MCP028	CMCP028	4.5	8 Zig	12.0	5.0	8	110	0.035	7
MCP037	CMCP029	4.5	8 Zig	14.0	5.0	8	110	0.035	6
			_						
MCP030	CMCP030	4.5	8 Zig	16.0	5.0	9	110	0.035	5
MCP031	CMCP031	4.5	8 Zig	18.0	5.0	9	110	0.035	4
MCP032	CMCP032	4.5	8 Zig	20.0	5.0	9	110	0.035	4
MCP033	CMCP033	4.5	8 Zig	22.0	5.0	9	110	0.035	3
MCP034	CMCP034	4.5	8 Zig	24.0	5.0	9	110	0.035	3
MCP059	CMCP059	5.0	8 Zig	12.0	5.5	8	110	0.035	7
/ICP060	CMCP060	5.0	8 Zig	14.0	5.5	8	110	0.035	6

	Bare CP Stent ^T			Touritou Govern		(55.)			
REF MCP	REF CMCP		t Length # of Zig	Outer Balloon Diameter (mm)	Outer Balloon Length (cm)	Shaft Size (FR)	Usable Length (cm)	Guide Wire (Inches)	Rated Burst (ATM)
MCP061	CMCP061	5.0	8 Zig	16.0	5.5	9	110	0.035	5
MCP062	CMCP062	5.0	8 Zig	18.0	5.5	9	110	0.035	4
MCP063	CMCP063	5.0	8 Zig	20.0	5.5	9	110	0.035	4
MCP064	CMCP064	5.0	8 Zig	22.0	5.5	9	110	0.035	3
MCP065	CMCP065	5.0	8 Zig	24.0	5.5	9	110	0.035	3
MCP066	CMCP066	5.5	8 Zig	12.0	6.0	8	110	0.035	7
MCP067	CMCP067	5.5	8 Zig	14.0	6.0	8	110	0.035	6
MCP068	CMCP068	5.5	8 Zig	16.0	6.0	9	110	0.035	5
MCP069	CMCP069	5.5	8 Zig	18.0	6.0	9	110	0.035	4
MCP070	CMCP070	5.5	8 Zig	20.0	6.0	9	110	0.035	4
MCP071	CMCP071	5.5	8 Zig	22.0	6.0	9	110	0.035	3
MCP072	CMCP072	5.5	8 Zig	24.0	6.0	9	110	0.035	3
MCP073	CMCP073	6.0	8 Zig	12.0	6.0	8	110	0.035	7
MCP074	CMCP074	6.0	8 Zig	14.0	6.0	8	110	0.035	6
MCP075	CMCP075	6.0	8 Zig	16.0	6.0	9	110	0.035	5
MCP076	CMCP076	6.0	8 Zig	18.0	6.0	9	110	0.035	4
MCP077	CMCP077	6.0	8 Zig	20.0	6.0	9	110	0.035	4
MCP078	CMCP078	6.0	8 Zig	22.0	6.0	9	110	0.035	3
MCP079	CMCP079	6.0	8 Zig	24.0	6.0	9	110	0.035	3
MCP040	CMCP040	3.9	10 Zig	26.0	4.0	11	110	0.035	3
MCP041	CMCP041	3.9	10 Zig	28.0	4.0	11	110	0.035	2
MCP042	CMCP042	3.9	10 Zig	30.0	4.0	11	110	0.035	2
MCP044	CMCP044	4.5	10 Zig	26.0	5.0	11	110	0.035	3
MCP045	CMCP045	4.5	10 Zig	28.0	5.0	11	110	0.035	2
MCP046	CMCP046	4.5	10 Zig	30.0	5.0	11	110	0.035	2
MCP048	CMCP048	5.0	10 Zig	26.0	5.5	11	110	0.035	3
MCP049	CMCP049	5.0	10 Zig	28.0	5.5	11	110	0.035	2
MCP050	CMCP050	5.0	10 Zig	30.0	5.5	11	110	0.035	2
MCP052	CMCP052	5.5	10 Zig	26.0	6.0	11	110	0.035	3
MCP053	CMCP053	5.5	10 Zig	28.0	6.0	11	110	0.035	2
MCP054	CMCP054	5.5	10 Zig	30.0	6.0	11	110	0.035	2
MCP056	CMCP056	6.0	10 Zig	26.0	6.0	11	110	0.035	3
MCP057	CMCP057	6.0	10 Zig	28.0	6.0	11	110	0.035	2
MCP058	CMCP058	6.0	10 Zig	30.0	6.0	11	110	0.035	2

Z-MED® Line

Current results of balloon aortic valvuloplasty in highrisk patients.

Shareghi S, Rasouli L, Shavelle DM, Burstein S, MD, Matthews RV.

The Journal of Invasive Cardiology (2007); 19 (1): pp. 1-5.

TYSHAK® Line

Balloon pulmonary valvutomy as interim palliation for symptomatic young infants with tetralogy of Fallot.

Remadevi KS, Vaidyanathan B, Francis E, Kannan BR, Kumar RK.

Annals of Pediatric Cardiology (2008); January; 1 (1): pp. 2-7.

Use of a 3 French system for balloon aortic valvuloplasty in infants.

Kim DW, Raviele AA, Vincent RN. Catheterization and Cardiovascular Interventions (2005); October; 66 (2): pp. 254-7.

$Z-5^{TM}$

A new low profile balloon atrial septostomy catheter: initial animal and clinical experience.

Hijazi ZM, Geggel RL, Aronovitz MJ, Marx GR, Rhodes J, Fulton DR

The Journal of Invasive Cardiology (1994); July - August; 6 (6): pp. 209-12.

Bonhoeffer Multi-Track

Percutaneous mitral valve dilatation with the Multi-Track System.

Bonhoeffer P, Esteves C, Casal U, Tortoledo F, Yonga G, Patel T, Chisholm R, Luxereau P, Ruiz C. Catheterization and Cardiovascular Interventions (1999); October; 48 (2): pp. 178-83.

The multi-track angiography catheter: a new tool for complex catheterisation in congenital heart disease.

Bonhoeffer P, Piéchaud JF, Stümper O, Bonnet D, Aggoun Y, Sidi D, Kachaner J. Heart (1996); August; 76 (2): pp. 173-7.

Mitral dilatation with the Multi-Track system: an alternative approach.

Bonhoeffer P, Piéchaud JF, Sidi D, Yonga GO, Jowi C, Joshi M, Mugo M, Kachaner J, Parenzan L. Catheterization and Cardiovascular Diagnosis (1995); October; 36 (2): pp. 189-93.

BIB®

Percutaneous interventions of the aorta.

Gewillig M, Budts W, Boshoff D, Maleux G. Future Cardiology (2012); March; 8 (2): pp. 251-69.

CP Stent™ (Bare/Covered)

Stenting of aortic coarctation: acute, intermediate, and long-term results of a prospective multi-institutional registry - Congenital Cardiovascular Interventional Study Consortium (CCISC).

Holzer R, Qureshi S, Ghasemi A, Vincent J, Sievert H, Gruenstein D, Weber H, Alday L, Peirone A, Zellers T, Cheatham J, Slack M, Rome J.

Catheterization and Cardiovascular Interventions (2010); October; 76 (4): pp. 553-63.

Covered stents in patients with complex aortic coarctations.

Butera G, Piazza L, Chessa M, Negura DG, Rosti L, Abella R, Delogu A, Condoluci C, Magherini A, Carminati M. American Heart Journal (2007); October; 154 (4): pp. 795-800.

Results and mid-long-term follow-up of stent implantation for native and recurrent coarctation of the aorta.

Chessa M, Carrozza M, Butera G, Piazza L, Negura DG, Bussadori C, Bossone E, Giamberti A, Carminati M. European Heart Journal (2005); December; 26 (24): pp. 2728-32.

Initial experience using the NuMED Cheatham Platinum (CP) stent for interventional treatment of coarctation of the aorta in children and adolescents.

Haas NA, Lewin MA, Knirsch W, Nossal R, Ocker V, Uhlemann F.

Zeitschrift für Kardiologie (2005); February; 94 (2): pp. 113-20.

Immediate Outcomes of Covered Stent Placement for Treatment or Prevention of Aortic Wall Injury Associated With Coarctation of the Aorta (COAST II).

Taggart NW, Minahan M, Cabalka AK, Cetta F, Usmani K, Ringel RE; COAST II Investigators.

JACC Cardiovasc Interv. 2016 March 14; 9(5): pp. 484-93

Coarctation Of the Aorta Stent Trial (COAST: NCT00552812)

The CP Stent® was tested and found to be safe and effective to widen the narrow part of the aorta related to coarctation of the aorta.

Covered CP Stents for the Prevention or Treatment of Aortic Wall Injury Associated With Coarctation of the Aorta (COASTII: NCT 01278303)

The Covered CP Stent® was tested and found to be safe and effective to repair aortic wall injuries and widen the narrow part of the aorta related to coarctation of the aorta.

Pulmonary Artery Repair With Covered Stents (PARCS: NCT01824160)

The Covered CP Stent® was tested and found to be safe and effective to use as a treatment of right ventricle to pulmonary artery (right ventricular outflow tract) conduit disruptions that are identified during conduit pre-dilatation procedures performed in preparation for transcatheter pulmonary valve replacement (TPVR).





AUSTRALIA & NEW ZEALAND



Intervene Medical Pty Ltd - *Improving Patient Outcomes* **Head Office:** U1/22 Payneham Rd, Stepney, SA 5069, AU

Phone: 08 6444 9949

Email: customer.service@intervenemedical.com.au

NuMED For Children
www.numedforchildren.com

USA

NuMED, Inc. 2880 Main Street Hopkinton, NY 12965 USA

Customer Service T +1 315 328 4491 F +1 315 328 4941

CANADA

NuMED Canada, Inc. 45 Second Street West Cornwall, ON K6J 1G3 Canada

Customer Service T +1 613 936 2592 F +1 613 936 2593

EUROPE

G. van Wageningen B.V. Hallenweg 40 5683 CT Best Netherlands

Customer Service T +31 499 377 388 F +31 499 377 456