



NuCLEUS™ 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		<ul style="list-style-type: none"> • 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
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 or Nominal Pressure), DEHP-free, Latex-free		
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
Ordering information	Page 39 – 41		