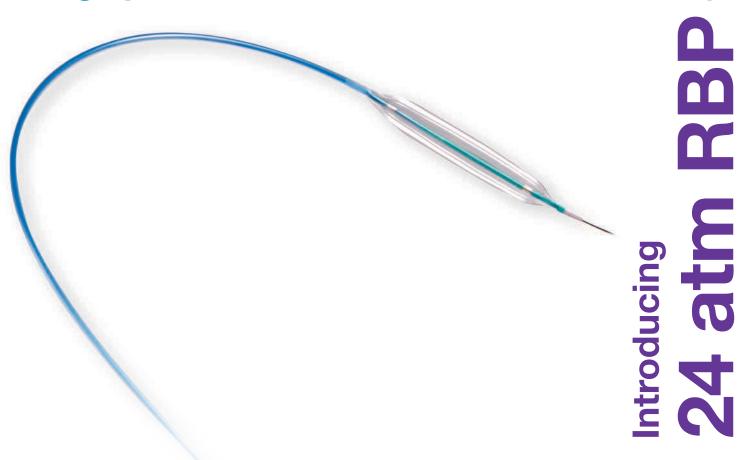


Engineered for true controlled compliance, high pressure tolerance and re-crossability



Manufactured by:



Distributed by:



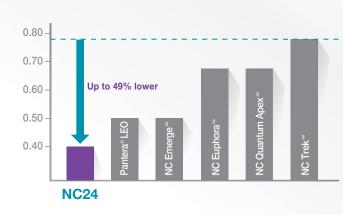
# Sapphire® NC24 offers a complete balance for

## true controlled compliance, high pressure tolerance and re-crossability

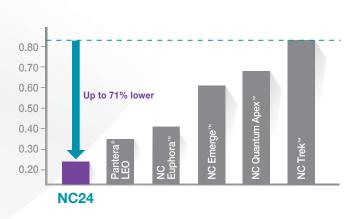
## Controlled Balloon Compliance for most

accurate sizing and stent optimization

Lowest % Circumferential Growth\*
(Nom to RBP)

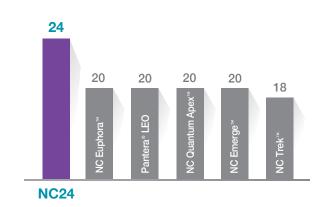


Lowest % Longitudinal Growth\*
(Nom to RBP)



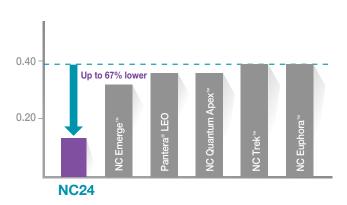
Highest RBP on the market at 24 atm

Rated Burst Pressure\* (atm)



Enhanced balloon design for minimal dog-bone effect

Balloon Diameter Variance (BDV) Index\*



Diameter range of 2.0 to 5.0 mm and new balloon lengths of **22 and 26 mm** for broader range of vessel treatment

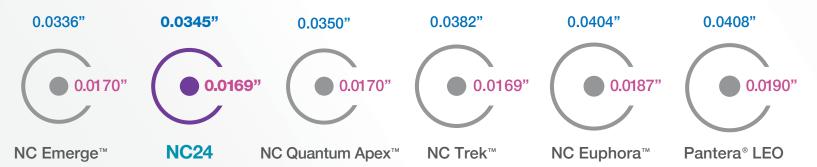




### **Technical Specifications**

Proximal Shaft	2.1 Fr					
Distal Shaft	2.36 - 2.7 Fr (Ø2.0 - 5.0 mm)					
Catheter Working Length	140 cm					
Tip Length	1.5 mm - 2.5 mm (Ø2.0 - 5.0 mm)					
Marker Bands	2 (Ø2.0 - 5.0 mm)					
Balloon Folds	3 (Ø2.0 - 3.0 mm), 5 (Ø3.25 - 5.0 mm)					
Coating	<ul><li>Hydrophilic (tip to guidewire exit port)</li><li>Hydrophobic (guidewire lumen)</li></ul>					
Nominal Pressure	14 atm					
Rated Burst Pressure	24 atm (Ø2.0 - 3.5 mm), 22 atm (Ø3.75 - 4.0 mm), 20 atm (Ø4.5 - 5.0 mm)					

### The Most Competitive Crossing and Tip Entry Profile\* (Ø 3.0 mm)



<sup>\*</sup>OrbusNeich bench data on file and results are available in the public domain. Bench testing results may not be indicative of clinical performance.

### **Ordering Information**

#### **FDA Cleared Manufacturing Catalogue Numbers**

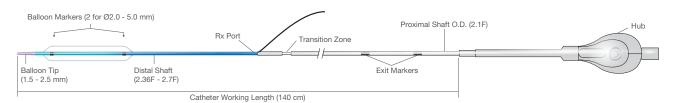
Balloon Diameter (mm)	Balloon Working Length (mm)								
Dalloon Diameter (min)	8	10	12	15	18	22	26		
2.0	492000812	492001012	492001212	492001512	492001812	492002212	492002612		
2.25	492250812	492251012	492251212	492251512	492251812	492252212	492252612		
2.5	492500812	492501012	492501212	492501512	492501812	492502212	492502612		
2.75	492750812	492751012	492751212	492751512	492751812	492752212	492752612		
3.0	493000812	493001012	493001212	493001512	493001812	493002212	493002612		
3.25	493250812	493251012	493251212	493251512	493251812	493252212	493252612		
3.5	493500812	493501012	493501212	493501512	493501812	493502212	493502612		
3.75	493750812	493751012	493751212	493751512	493751812	493752212	493752612		
4.0	494000812	494001012	494001212	494001512	494001812	494002212	494002612		
4.5	494500812	494501012	494501212	494501512	494501812	494502212	494502612		
5.0	495000812	495001012	495001212	495001512	495001812	495002212	495002612		

### Compliance Chart

Pressure (atm)	Balloon Diameter (mm)										
	2.0	2.25	2.5	2.75	3.0	3.25	3.5	3.75	4.0	4.5	5.0
6	1.93	2.17	2.42	2.66	2.90	3.13	3.38	3.60	3.86	4.31	4.80
8	1.95	2.19	2.44	2.68	2.93	3.16	3.41	3.64	3.90	4.36	4.85
10	1.96	2.21	2.46	2.70	2.95	3.19	3.44	3.68	3.93	4.41	4.90
12	1.98	2.23	2.48	2.73	2.98	3.22	3.47	3.71	3.97	4.45	4.95
14 NOM*	2.00	2.25	2.50	2.75	3.00	3.25	3.50	3.75	4.00	4.50	5.00
16	2.02	2.27	2.52	2.77	3.02	3.28	3.53	3.79	4.03	4.55	5.05
18	2.04	2.29	2.54	2.80	3.05	3.31	3.56	3.82	4.07	4.59	5.10
20 (RBP)**	2.05	2.31	2.56	2.82	3.07	3.34	3.59	3.86	4.10	4.64	5.15
22 (RBP)**	2.07	2.33	2.58	2.84	3.10	3.37	3.62	3.90	4.14	4.69	5.20
24 (RBP)**	2.09	2.35	2.60	2.86	3.12	3.40	3.65	3.93	4.17	4.73	5.25
26	2.11	2.37	2.62	2.89	3.15	3.43	3.67	3.97	4.21	-	-
28	2.12	2.39	2.64	2.91	3.17	3.46	3.70	-	-	-	-

<sup>\*</sup>Nominal Pressure. The nominal in vitro device specifications do not take into account any lesion resistance.

<sup>\*\*</sup> Rated Burst Pressure. Do not exceed RBP



#### For more information, please contact your local CSI representative or call customer service at 1-877-274-0901.

INDICATIONS: The Sapphire NC 24 Coronary Dilatation Catheter is indicated for balloon dilatation of a coronary artery occlusion for the treatment of acute myocardial infarction and post-delivery expansion of balloon expandable coronary stents. CONTRAINDICATIONS: The use of the Sapphire NC 24 Coronary Dilatation Catheter is contraindicated in patients with an unprotected left main coronary artery and coronary artery spasm in the absence of a significant stenosis. WARNINGS: When using this type of device, the following warnings should be observed: To reduce the potential for vessel damage, the inflated diameter of the balloon should approximate the diameter of the vessel put proximal and idial to the stenosis. PTCA in patients who are not acceptable candidates for coronary artery bypass graft surgery require careful consideration, including possible hemodynamic support during PTCA, as treatment of this patient population carries special risk. When the catheter is exposed to the vascular system, it should be manipulated while under high quality fluoroscopic observation. Do not advance or retract the catheter unless the balloon is fully deflated under vacuum. If resistance is met during manipulation, determine the cause of the resistance before proceeding. Balloon pressure should not exceed the Rated Burst Pressure (RBP) indicated on the package. The RBP is based on results of in vitro testing, At least 99.9 percent of the balloons, (with a 95 percent confidence) will not burst at or below their rated burst pressure. Use of a pressure monitoring device is recommended to prevent or pressure and their pressure only be performed at hospitals where emergency coronary artery bypass graft surgery can be quickly performed in the event of a potentially injurious or life-threatening complication. Use only the recommended alloon inflam medium. Never use air or any gaseous medium to inflate the balloon. This device is designed and intended for single use only. DO NOT reprocess, re-sterilize and/or reuse. Reuse of single-use devices creates a potential risk of patient or user infections. Reuse may lead to impairment of functional performance. Infections and/or limited performance of the device may lead to injury, illness or death of the patient. PECAUTIONS: Do not re-insert the PTCA catheter into the coil dispenser after procedural use. Prior to angioplasty, the dilatation catheter should be examined to verify functionality and ensure that its size is suitable for the specific procedure for which it is being used. The catheter system should be used only by physicians trained in the performance of percutaneous transluminal coronary angioplasty, During the procedure, appropriate anticoagulant and coronary vasodilator therapy must be provided to the patient as needed. After the procedure, anticoagulant therapy should be continued for a period of time as determined by the physician. The design and construction of these catheters do not provide the user with distal pressure monitoring capability. Discard all disposable devices used during this procedure per local requirements for medical device waste disposal. Do not use oil-based contrast medium, organic solvents or alcohols; there is a possibility of catheter leak, damage or lubrication loss. Use with caution for procedures involving calcified lesions due to the abrasive nature of these lesions.

CAUTION: Federal Law (USA) restricts the sale of these devices to sale by, or on the order of, a physician.

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