1st and Only 1.0 mm with FDA Clearance

SAPPHIRE® II PRO
Balloon Dilatation Catheter



SAPPHIRE® NC 24
Coronary Dilatation Catheter

Redefining the Standard of Balloon Angioplasty

Sapphire Balloon Dilatation Catheter Series:
Advanced technology for the treatment of complex coronary artery disease

Distributed by:

CSI® CARDIOVASCULAR SYSTEMS, INC.

Manufactured by:

OrbusNeich®
Pioneers in life-changing technologies

SAPPHIRE II PRO
Balloon Dilatation Catheter

Redefining the Standard of Balloon Angioplasty

1.0 mm - 4.0 mm Semi-compliant Balloon for Vascular Treatment

Cross with Confidence

Specifically engineered for crossing difficult lesions and tracking tortuous anatomy.

The 1st and Only 1.0 mm Balloon with FDA Clearance

Tip Entry and Crossing Profile Comparison

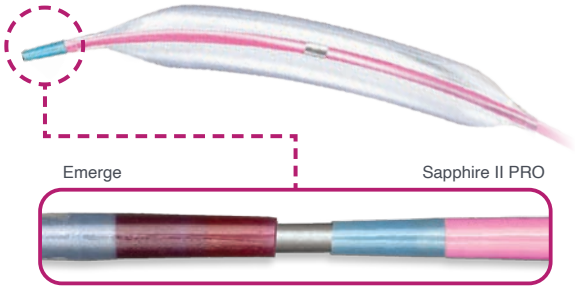


Sapphire II PRO 1.0 mm (Rx / OTW)	Takeru® 1.5 mm	Emerge® 1.2 mm	Sprinter® Legend 1.25 mm	Mini Trek® Rx 1.2 mm	Mini Trek® OTW 1.2 mm
0.0216" / 0.0164"	0.0220" / 0.0169"	0.0255" / 0.0170"	0.0267" / 0.0176"	0.0273" / 0.0187"	0.0273" / 0.0210"

OrbusNeich data on file.

Sub-zero Tip Technology For Smooth Lesion Entry

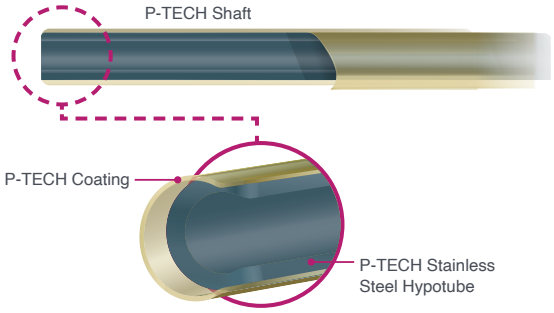
The well-balanced, sub-zero tapered tip has an ultra low profile and provides smooth entry through the tightest lesions

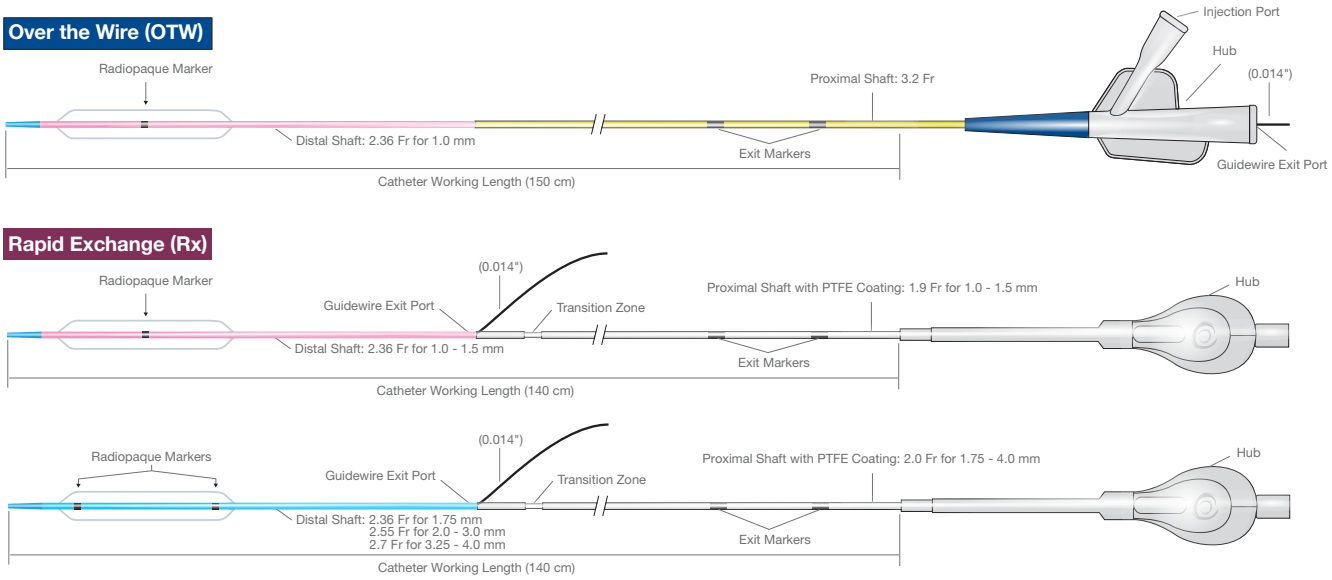


Smallest Crossing Profile in the US Market

P-tech Shaft for Optimal Pushability and Kink Resistance

The P-TECH Shaft is uniquely constructed with a small catheter profile that is kink resistant and facilitates excellent deliverability





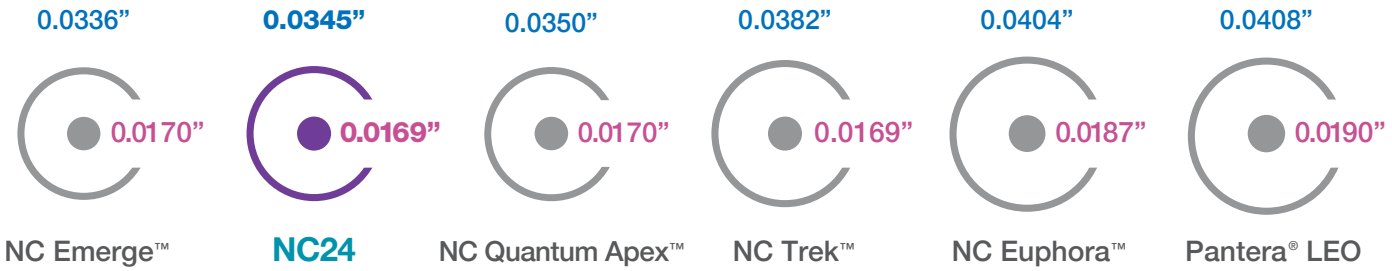
SAPPHIRE® NC 24
Coronary Dilatation Cathete

True Controlled Compliance, High Pressure Tolerance and Re-crossability

2.0 mm - 5.0 mm diameter range with balloon lengths up to 26 mm for broad range of vascular treatment

Most Competitive Crossability and Tip Entry Profile*

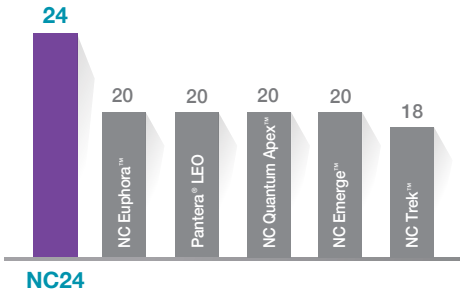
Tip Entry and Crossing Profile Comparison (Ø3.0 mm)



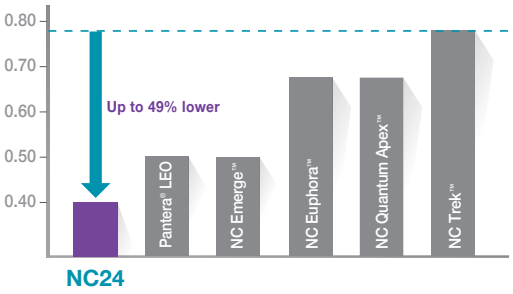
Highest RBP at 24 atm

Controlled Balloon Compliance for most accurate sizing, vessel optimization and minimal dog-bone effect

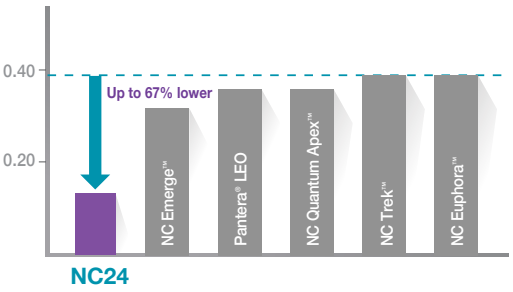
Rated Burst Pressure* (atm)

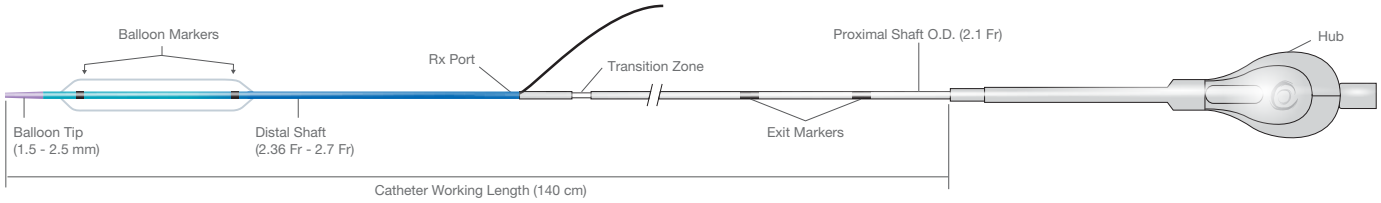


Lowest % Circumferential Growth* (Nom to RBP)



Balloon Diameter Variance (BDV) Index*





*OrbusNeich data on file. Bench testing results may not be indicative of clinical performance.

Ordering Information

SAPPHIRE® II PRO
Balloon Dilatation Catheter

Balloon Diameter (mm)		Balloon Working Length (mm)						
		5	8	10	12	15	20	30
OTW	1.0	501000512	501000812	501001012	–	501001512	–	–
Rx	1.0	210-053-5UU	210-083-5UU	210-103-5UU	–	210-153-5UU	–	–
	1.25	212-053-5UU	212-083-5UU	212-103-5UU	–	212–153-5UU	–	–
	1.5	–	–	215-103-5UU	215-123-5UU	215–153-5UU	215–203-5UU	–
	1.75	–	–	217-103-5UU	–	217-153-5UU	217-203-5UU	–
	2.0	–	–	220-103-5UU	220-123-5UU	220-153-5UU	220-203-5UU	–
	2.25	–	–	222-103-5UU	–	222-153-5UU	222-203-5UU	–
	2.5	–	–	225-103-5UU	225-123-5UU	225-153-5UU	225-203-5UU	225-303-5UU
	2.75	–	–	227-103-5UU	–	227-153-5UU	227-203-5UU	–
	3.0	–	–	230-103-5UU	230-123-5UU	230-153-5UU	230-203-5UU	230-303-5UU
	3.25	–	–	232-103-5UU	–	232-153-5UU	232-203-5UU	–
	3.5	–	–	235-103-5UU	–	235-153-5UU	235-203-5UU	235-303-5UU
	4.0	–	–	240-103-5UU	–	240-153-5UU	240-203-5UU	–

Compliance Chart

Pressure (atm)		Balloon Diameter (mm)											
		1.0	1.25	1.5	1.75	2.0	2.25	2.5	2.75	3.0	3.25	3.5	4.0
2		0.83	1.04	1.29	1.41	1.66	1.89	2.12	2.33	2.50	2.74	2.98	3.38
4		0.94	1.17	1.42	1.62	1.87	2.12	2.36	2.60	2.82	3.06	3.31	3.77
6	NOM*	1.00	1.25	1.50	1.75	2.00	2.25	2.50	2.75	3.00	3.25	3.50	4.00
8		1.04	1.30	1.56	1.84	2.09	2.34	2.60	2.86	3.13	3.38	3.64	4.16
10		1.08	1.35	1.60	1.91	2.16	2.42	2.68	2.94	3.23	3.49	3.74	4.29
12		1.11	1.38	1.63	1.96	2.21	2.48	2.74	3.01	3.31	3.57	3.83	4.39
14	RBP**	1.13	1.41	1.66	2.01	2.26	2.53	2.79	3.07	3.38	3.64	3.90	4.48
16		1.15	1.41	1.69	2.05	2.30	2.57	2.84	3.12	3.44	3.70	3.96	4.55
18		1.17	1.46	1.71	2.09	2.34	2.61	2.88	3.17	3.50	3.76	4.02	4.62

* Nominal Pressure. The nominal in-vitro device specifications do not take into account any lesion resistance.
** Rated Burst Pressure. Do not exceed RBP.

Ordering Information

SAPPHIRE® NC 24
Coronary Dilatation Catheter

Balloon Diameter (mm)	Balloon Working Length (mm)						
	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	-	-	-	-

* Nominal Pressure. The nominal in-vitro device specifications do not take into account any lesion resistance.
** 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.

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

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