

SAPPHIRE[®] II PRO

Balloon Dilatation Catheter

1st and Only
1.0 mm with
FDA Clearance

SAPPHIRE[®] NC PLUS
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.**

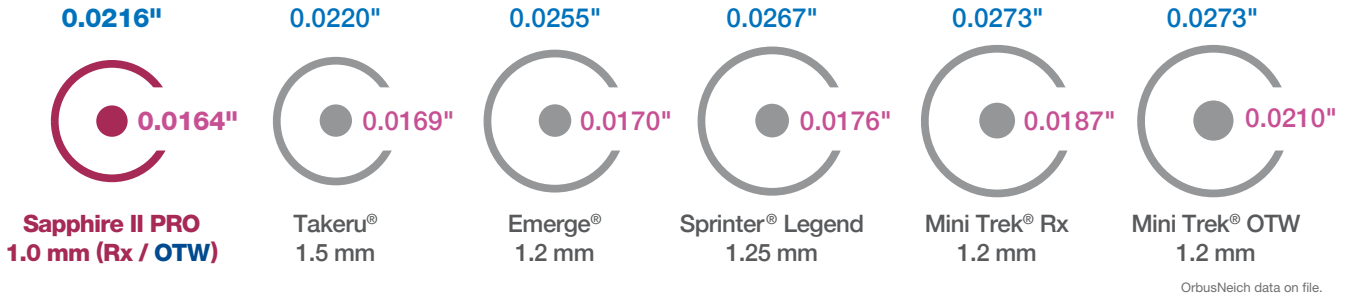
Manufactured by:

OrbusNeich[®]
Pioneers in life-changing technologies

1.0 mm - 4.0 mm Semi-compliant Balloon for Vascular Treatment Cross with Confidence

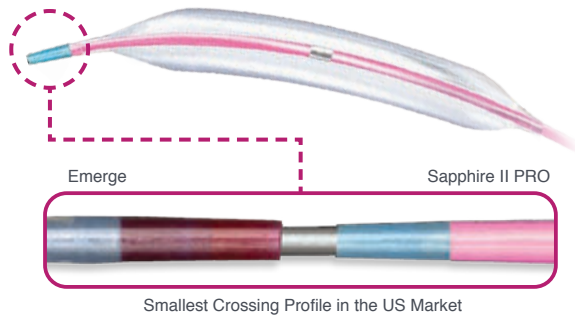
Specifically engineered for crossing difficult lesions and tracking tortuous anatomy.

The 1st and Only 1.0 mm Balloon with FDA Clearance Tip Entry and Crossing Profile Comparison



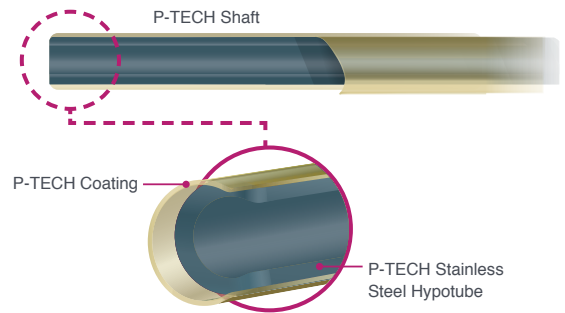
Sub-zero Tip Technology For Smooth Lesion Entry

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

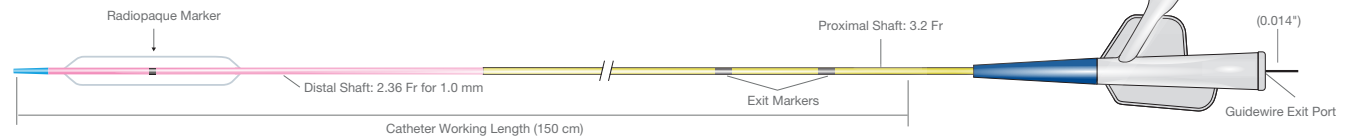


P-tech Shaft for Optimal Pushability and Kink Resistance

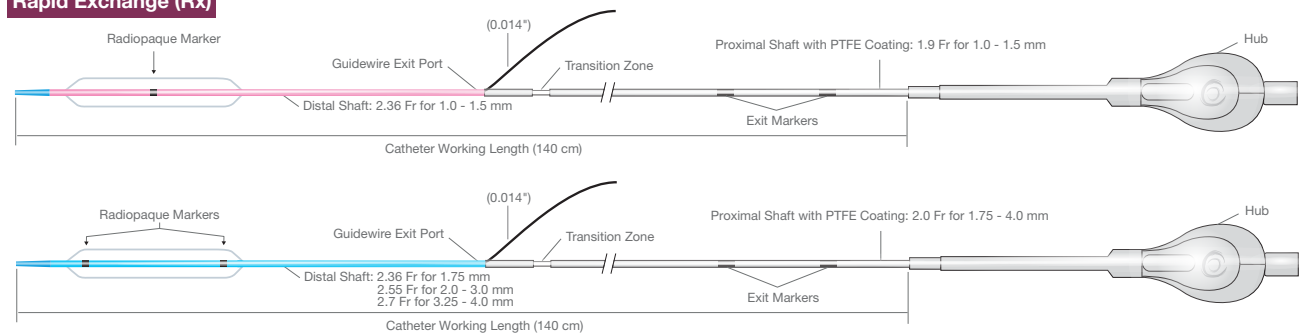
The P-TECH Shaft is uniquely constructed with a small catheter profile that is kink resistant and facilitates excellent deliverability



Over the Wire (OTW)



Rapid Exchange (Rx)



2.0 mm - 5.0 mm Non-compliant Balloon Controlled Strength

And Superb Deliverability for Unyielding Lesions

HIST Tip for Fast and Precise Crossability

High Speed Tracking tip with precision laser technology

HYDRO-X Coating for Speed, Durability and Reliability

Coating from tip to guidewire exit port for superb deliverability

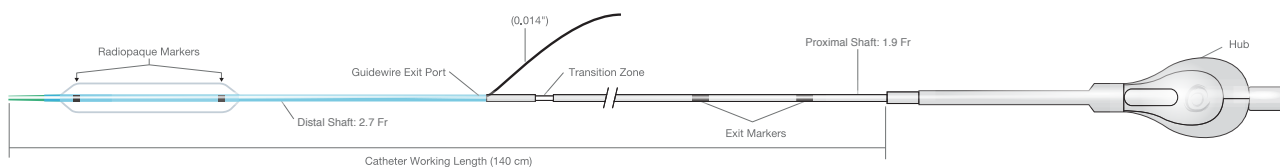
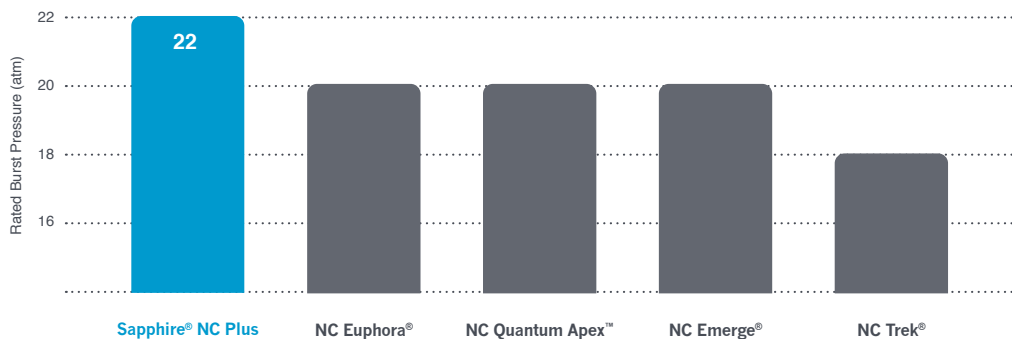
HIPP Balloon Material for Robustness and Control

High Pressure Performance balloon to withstand pressure with controlled compliance

TiFo Folding for Enhanced Crossability in the Tightest Lesions

Tight Fold processing results in a slender primary profile for enhanced crossability through tight lesions

Highest Rated Burst Pressure (RBP) to Withstand High Pressure Inflation for Unyielding Lesions



Sapphire NC Plus combines advanced precision and engineering technologies for optimum reliability and deliverability. A truly NON-COMPLIANT balloon that takes the pressure with minimal balloon growth for reliable dilatation.

Ordering Information

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
	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
	3.25	-	-	232-103-5UU	-	232-153-5UU	232-203-5UU
3.5	-	-	235-103-5UU	-	235-153-5UU	235-203-5UU	
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

Balloon Diameter (mm)	Balloon Working Length (mm)				
	8	10	12	15	18
2.0	220-083-2U	220-103-2U	220-123-2U	220-153-2U	220-183-2U
2.25	222-083-2U	222-103-2U	222-123-2U	222-153-2U	222-183-2U
2.5	225-083-2U	225-103-2U	225-123-2U	225-153-2U	225-183-2U
2.75	227-083-2U	227-103-2U	227-123-2U	227-153-2U	227-183-2U
3.0	230-083-2U	230-103-2U	230-123-2U	230-153-2U	230-183-2U
3.25	232-083-2U	232-103-2U	232-123-2U	232-153-2U	232-183-2U
3.5	235-083-2U	235-103-2U	235-123-2U	235-153-2U	235-183-2U
3.75	237-083-2U	237-103-2U	237-123-2U	237-153-2U	237-183-2U
4.0	240-083-2U	240-103-2U	240-123-2U	240-153-2U	240-183-2U
4.5	245-083-2U	245-103-2U	245-123-2U	245-153-2U	245-183-2U
5.0	250-083-2U	250-103-2U	250-123-2U	250-153-2U	250-183-2U

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	1.94	2.18	2.42	2.65	2.89	3.14	3.38	3.61	3.85	4.29	4.76	
8	1.96	2.20	2.44	2.69	2.93	3.17	3.42	3.66	3.90	4.36	4.84	
10	1.98	2.23	2.47	2.72	2.96	3.21	3.46	3.70	3.95	4.43	4.92	
12 NOM*	2.00	2.25	2.50	2.75	3.00	3.25	3.50	3.75	4.00	4.50	5.00	
14	2.02	2.27	2.53	2.78	3.04	3.29	3.54	3.80	4.05	4.57	5.08	
16	2.04	2.30	2.56	2.81	3.07	3.33	3.58	3.84	4.10	4.64	5.16	
18	2.06	2.32	2.58	2.85	3.11	3.36	3.62	3.89	4.15	4.71	5.24	
20 RBP**	2.08	2.35	2.61	2.88	3.14	3.40	3.66	3.93	4.20	4.77	5.31	
22 RBP**	2.10	2.37	2.64	2.91	3.18	3.44	3.70	3.98	4.25	4.84	5.39	
24	2.12	2.39	2.67	2.94	3.22	3.48	3.74	4.03	4.30	4.91	5.47	
26	2.14	2.42	2.70	2.97	3.25	3.52	3.78	4.07	4.35	4.98	5.55	

* 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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