S3V
VASCULAR TECHNOLOGIES

3V NEIL

Sirolimus Drug Eluting Stent System

Uncompromised Quality
Unsurpassed Value

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MFG. LIC. NO. KTK/28/413/2013

Unique Formulation

Formulated for complete decomposition into CO_2 & H_2O during 10 - 13 week period

Controlled Drug Release

90% drug released within 4-6 weeks of implant

Optimal Loading Dose

Optimum Sirolimus Loading dose of 1.4 micro gram per square millimeter

Enhanced Drug Delivery Efficiency

Unique asymmetric coating to obtain 5 micron abluminal & 2.5 micron luminal concentration

Optimized Design

Structural behavior during bending & expansion

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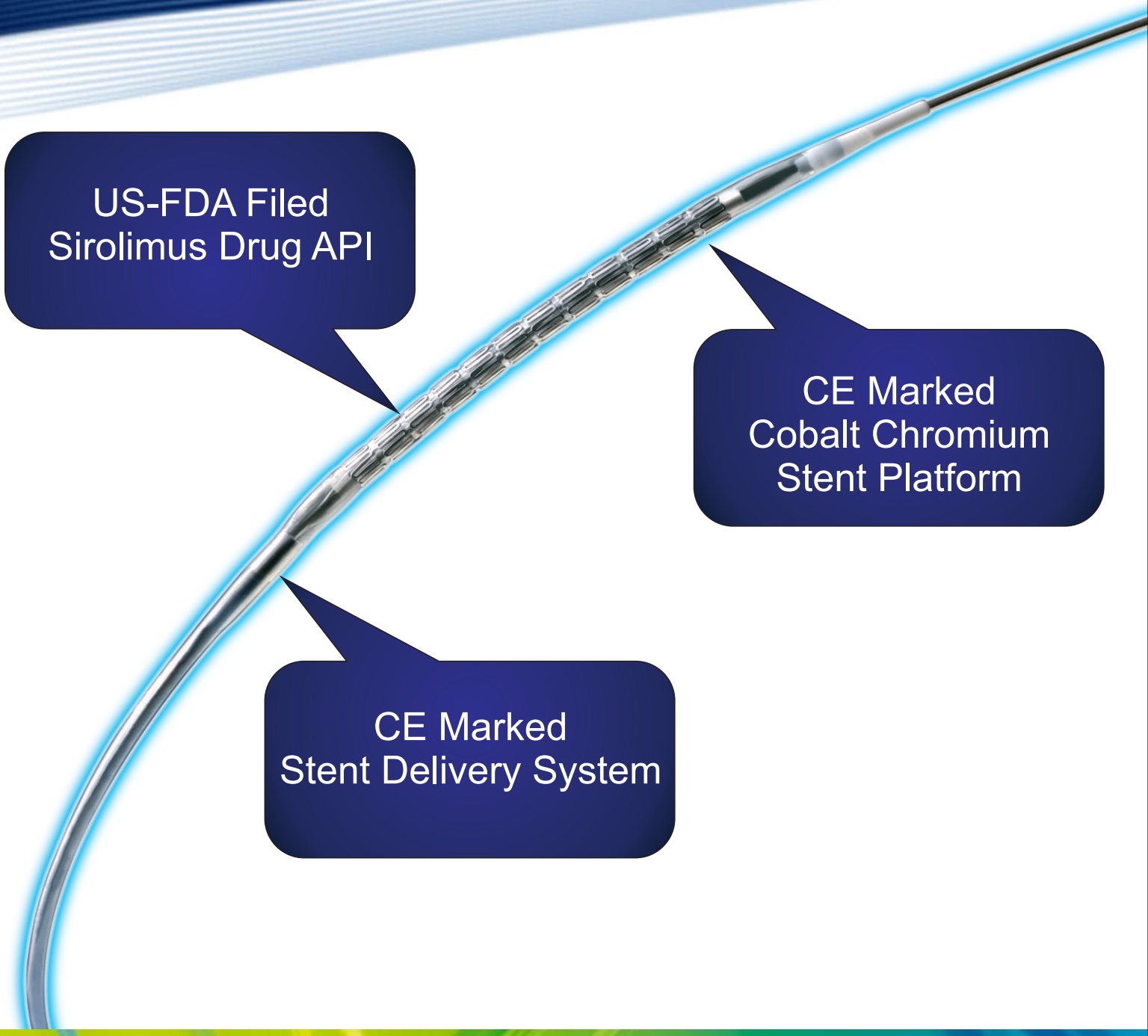

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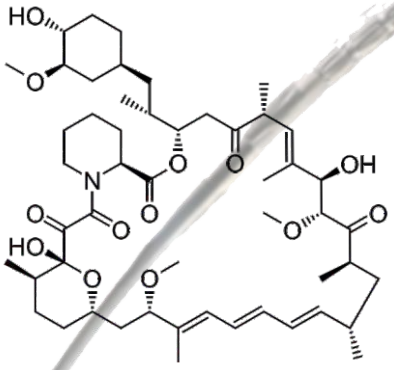
Novel Drug Delivery System

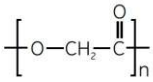
3V NEIL elutes Sirolimus from biodegradable polymer based matrix. The drug is coated on both abluminal and luminal surface of the stent and delivered in a controlled mannner. This gives the device a unique advantage of having superior safety and efficacy.



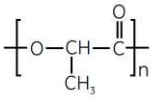
Proven Drug Efficacy & Safety

Sirolimus is an immunosuppressant drug molecule. It has been widely used on stents. The drug acts by cyto-static mechanism whereby it prevents the cell proliferation and helps in preventing restenosis.

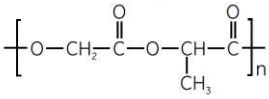
Poly (glycolic acid)



Poly (lactic acid)



Poly (D,L - Lactide-co-Glycolide) Copolymer



Biodegradable Polymer Matrix

The stent consists of a biodegradable polymer matrix containing Poly-L Lactide family of co-polymers. This polymer is completely biodegraded within 10 - 13 weeks of implantation.

Available Sizes

Length	Diameter in mm					
	2.25	2.50	2.75	3.00	3.50	4.00
8 mm	⊙	⊙	⊙	⊙	⊙	⊙
12 mm	⊙	⊙	⊙	⊙	⊙	⊙
16 mm	⊙	⊙	⊙	⊙	⊙	⊙
20 mm	⊙	⊙	⊙	⊙	⊙	⊙
24 mm	⊙	⊙	⊙	⊙	⊙	⊙
28 mm	⊙	⊙	⊙	⊙	⊙	⊙
32 mm	⊙	⊙	⊙	⊙	⊙	⊙
36 mm	⊙	⊙	⊙	⊙	⊙	⊙
40 mm	⊙	⊙	⊙	⊙	⊙	⊙

Pressure	Balloon Diameter					
	2.25	**2.50**	**2.75**	**3.00**	**3.50**	**4.00**
2	1.98	2.20	2.42	2.64	3.08	3.52
3	2.03	2.25	2.48	2.70	3.15	3.60
4	2.07	2.30	2.53	2.76	3.22	3.68
5	2.12	2.35	2.59	2.82	3.29	3.76
6	2.15	2.40	2.64	2.88	3.36	3.84
7	2.21	2.45	2.70	2.94	3.43	3.92
8*	**2.25**	**2.50**	**2.75**	**3.00**	**3.50**	**4.00**
9	2.28	2.54	2.79	3.05	3.55	4.06
10	2.32	2.58	2.83	3.09	3.61	4.12
11	2.35	2.61	2.87	3.14	3.66	4.18
12	2.39	2.65	2.92	3.18	3.71	4.24
13	2.42	2.69	2.96	3.23	3.77	4.31
14	2.46	2.74	3.01	3.29	3.83	**4.38**
15	2.50	2.78	3.06	3.34	3.89	4.45
16**	**2.54**	**2.83**	**3.11**	**3.39**	**3.96**	**4.52**
17	2.58	2.86	3.15	3.44	4.01	4.58
18	2.61	2.90	3.19	3.48	4.06	4.64

* Nominal pressure

** Rated burst pressure except for balloon diameter 4.00mm with length higher than 20mm (14bars)

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