

***Pinnacle***<sup>®</sup>

Introducer Sheaths

# IMPROVE OUTCOMES AND REDUCE COMPLICATIONS

A comprehensive line of  
uniquely-designed products



**TERUMO**  
INTERVENTIONAL  
SYSTEMS

# Pinnacle®

Introducer Sheaths

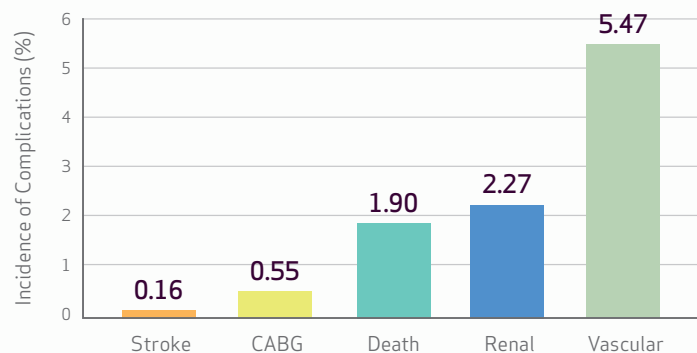
## AIM TO **IMPROVE** CLINICAL AND OPERATIONAL **OUTCOMES**

Femoral access site bleeding is the #1 complication in percutaneous coronary intervention (PCI)<sup>1</sup>

The average femoral bleeding complication can lead to:

- Additional 2-6 days in hospital<sup>2</sup>
- Incurred cost of \$6,377 for major and minor bleeding<sup>1</sup>

### Complications in Femoral Access Procedures<sup>1</sup>



Vascular complications occur more often than all other complications combined in femoral access procedures.

## AIM TO **REDUCE** FEMORAL ACCESS SITE BLEEDING **COMPLICATIONS**

The likelihood of hemostasis complications may be influenced by the size and characteristics of the artery puncture hole<sup>4</sup>

PINNACLE® Sheaths provide:

- Smooth and reliable vascular access
- A seamless transition of guidewire-to-dilator and dilator-to-sheath
- Flexible sheath designed to reduce kinking

Select from a comprehensive line of standard and specialty sheaths to help reduce the incidence of femoral access bleeding complications

**PINNACLE® Sheaths—from the maker of the #1 preferred and most used introducer sheaths on the market**

#### MicroAccess

**Pinnacle® Precision**

#### Standard Sheaths

**Pinnacle®**  
**Pinnacle® TIF TIP®**

#### Radiopaque Sheaths

**Pinnacle® R/O II**  
**Pinnacle® R/O II HiFlo**

#### Guiding Sheath

**Pinnacle® Destination®**

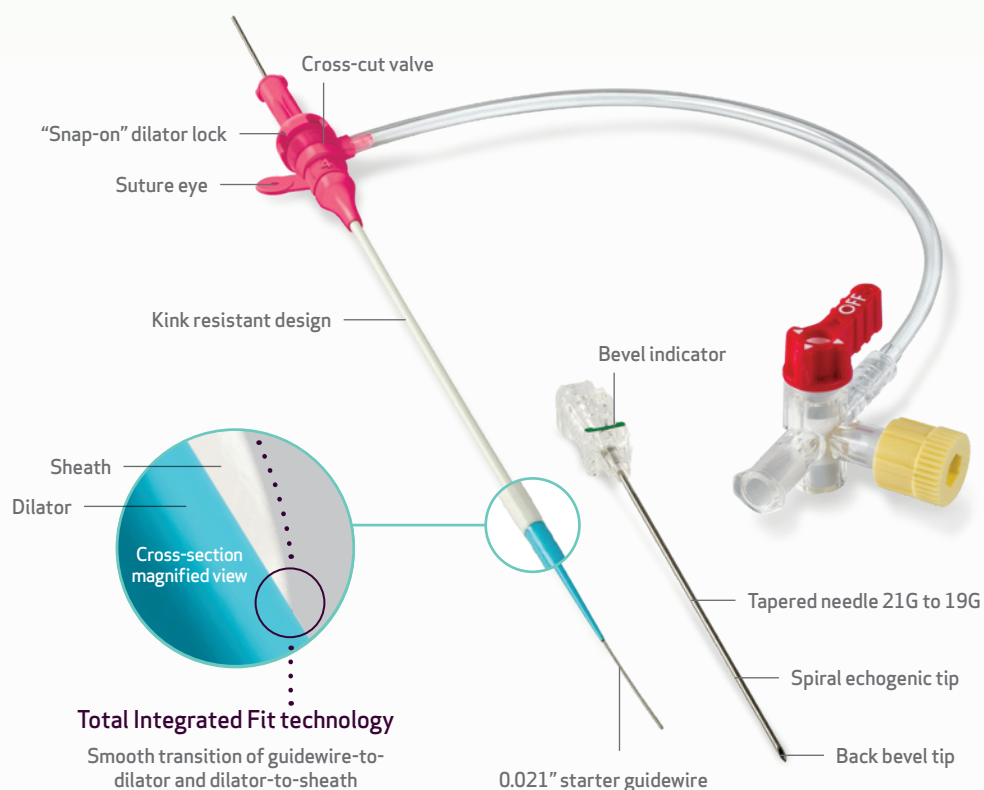
# Pinnacle® Precision

Access System

Help achieve smooth atraumatic vascular access through calcified or scarred arteries<sup>5</sup>

Competitive sheath requires 77% higher insertion force than Total Integrated Fit (TIF) technology<sup>6</sup>

- Tapered needle enables transitions from 21G tip to 19G shaft for better blood return
- Back bevel cuts help to facilitate a straighter entry<sup>5</sup>
- Greater rail strength to prevent buckling with the only 0.021" wire on the market<sup>6</sup>
- Seamless guidewire-to-dilator and dilator-to-sheath transition for challenging access situations<sup>6</sup>
- Highly flexible design resists kinking and helps reduce complications<sup>6</sup>



PINNACLE® Sheaths are from the maker of the #1 preferred and most used introducer sheaths on the market

# Pinnacle® Precision

Access System

## ORDERING INFORMATION

Packed 10 per box and includes dilator. All dilators are 0.021" wire compatible.

PINNACLE® PRECISION ACCESS SYSTEM® Sheath			
CODE	SHEATH SIZE (Fr)	WIRE	NEEDLE
70-4160	4	Nitinol	Echogenic
70-4130	4	Stainless Steel	Echogenic
70-5160	5	Nitinol	Echogenic
70-5130	5	Stainless Steel	Echogenic
70-6160	6	Nitinol	Echogenic
70-6130	6	Stainless Steel	Echogenic
70-7160	7	Nitinol	Echogenic
70-7130	7	Stainless Steel	Echogenic
70-8160	8	Nitinol	Echogenic
70-8130	8	Stainless Steel	Echogenic
70-4165	4 Stiff*	Nitinol	Echogenic
70-4135	4 Stiff*	Stainless Steel	Echogenic
70-5165	5 Stiff*	Nitinol	Echogenic
70-5135	5 Stiff*	Stainless Steel	Echogenic

\*Includes a stiff dilator for greater pushability

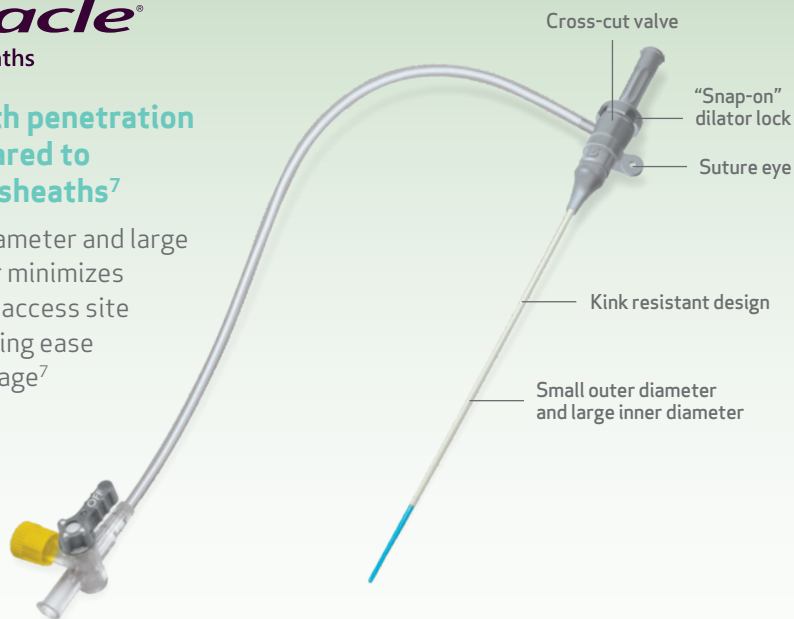
**FIND OUT MORE**  Phone: 800.862.4143  [terumo.com](http://terumo.com)  Fax: 800.411.5870

## Pinnacle®

Introducer Sheaths

Lower sheath penetration force compared to competitor sheaths<sup>7</sup>

Small outer diameter and large inner diameter minimizes the size of the access site while maintaining ease of device passage<sup>7</sup>

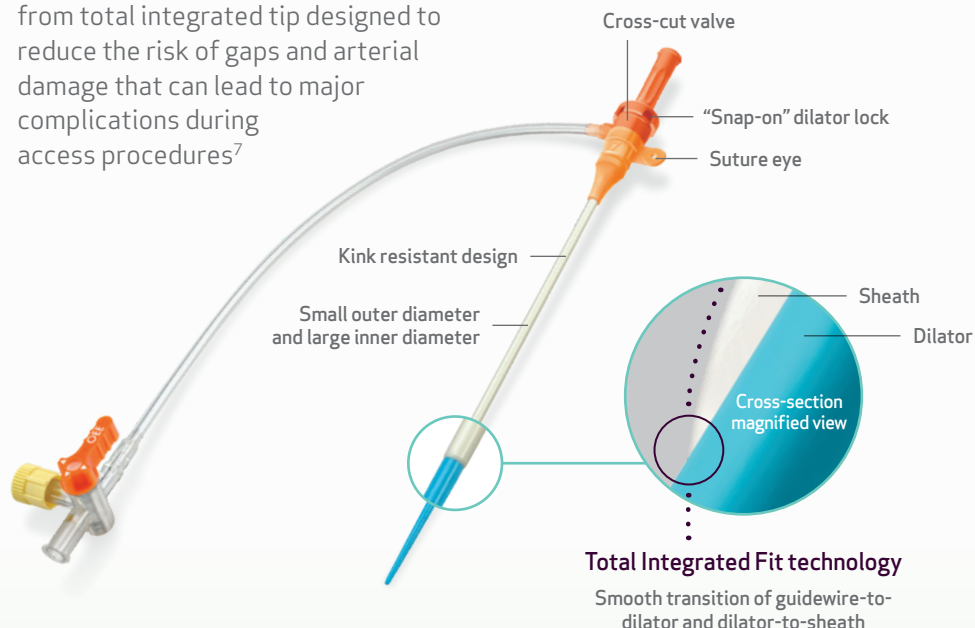


## Pinnacle® TIF TIP™

Introducer Sheaths

Total Integrated Fit (TIF) technology requires less penetration force than comparable sheaths<sup>7</sup>

TIF technology provides smooth transitions from total integrated tip designed to reduce the risk of gaps and arterial damage that can lead to major complications during access procedures<sup>7</sup>



PINNACLE® Sheaths are from the maker of the #1 preferred and most used introducer sheaths on the market

**Pinnacle®**

Introducer Sheaths

**Pinnacle® TIF TIP™**

Introducer Sheaths

## ORDERING INFORMATION

Packed 10 per box and includes dilator. All dilators are 0.038" wire compatible.

PINNACLE® Introducer Sheaths Coronary Applications				
CODE	LENGTH (cm)	INNER DIAMETER	MINI GUIDEWIRE DIAMETER	MINI GUIDEWIRE LENGTH
RSS402	10	4	.035*	45
RSS502	10	5	.038*	45
RSS602	10	6	.038*	45
RSS702	10	7	.038*	45
RSS802	10	8	.038*	45
RSS902	10	9	.038*	45
RSS002	10	10	.038*	45
RSS102	10	11	.038*	45
RSS404	10	4	—	—
RSS504	10	5	—	—
RSS604	10	6	—	—
RSS704	10	7	—	—
RSS804	10	8	—	—
RSS904	10	9	—	—
RSS004	10	10	—	—
RSS104	10	11	—	—
RSS506	25	5	—	—
RSS606	25	6	—	—
RSS706	25	7	—	—
RSS806	25	8	—	—
RSS906	25	9	—	—
RSS006	25	10	—	—
RSS106	25	11	—	—

PINNACLE® Introducer Sheaths Peripheral Applications				
CODE	LENGTH (cm)	INNER DIAMETER	MINI GUIDEWIRE DIAMETER	MINI GUIDEWIRE LENGTH
RSS401	10	4	.035*	45
RSS501	10	5	.035*	45
RSS601	10	6	.035*	45
RSS701	10	7	.035*	45
RSS801	10	8	.035*	45
RSS901	10	9	.035*	45
RSS001	10	10	.035*	45
RSS101	10	11	.035*	45
RSS403	10	4	—	—
RSS503	10	5	—	—
RSS603	10	6	—	—
RSS703	10	7	—	—
RSS803	10	8	—	—
RSS903	10	9	—	—
RSS003	10	10	—	—
RSS103	10	11	—	—
RSS505	25	5	—	—
RSS605	25	6	—	—
RSS705	25	7	—	—
RSS805	25	8	—	—
RSS905	25	9	—	—
RSS005	25	10	—	—
RSS105	25	11	—	—

Dilator Protuding Length = 2.5 cm

\*Mini stainless steel spring coil guidewire included. Maximum guidewire compatible size: 0.035" for 4 Fr, 0.038" for all others

## PINNACLE® TIF TIP™ Introducer Sheath

CODE	LENGTH (cm)	FRENCH SIZE	MINI GUIDEWIRE DIAMETER (in)	CODE	LENGTH (cm)	FRENCH SIZE	MINI GUIDEWIRE DIAMETER (in)
10-2031	10	5	0.035	10-2531	10	5	0.038
10-2032	10	6	0.035	10-2532	10	6	0.038
10-2033	10	7	0.035	10-2533	10	7	0.038
10-2034	10	8	0.035	10-2534	10	8	0.038

Dilator Protuding Length = 2.5 cm

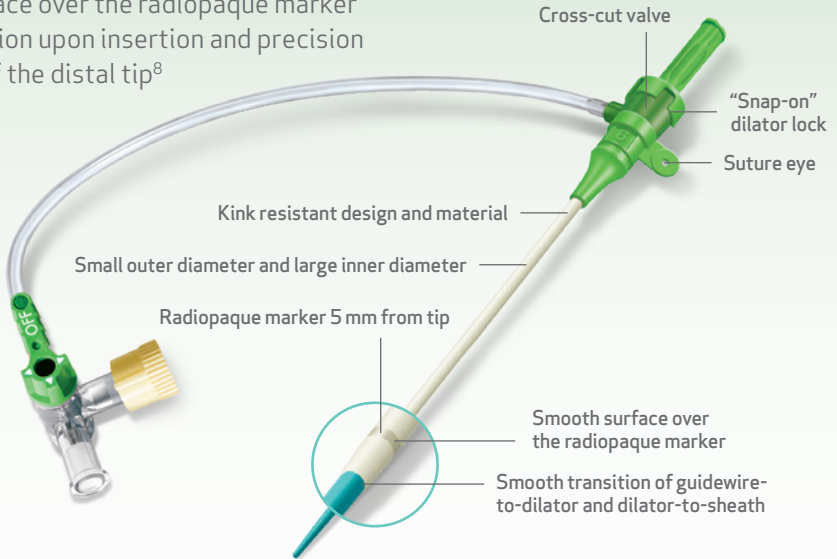
**FIND OUT MORE**  Phone: 800.862.4143  [terumo.com](http://terumo.com)  Fax: 800.411.5870


## Pinnacle® R/O II

Radiopaque Marker Introducer Sheaths

**Platinum/iridium radiopaque marker band is designed to enhance visibility**

Smooth surface over the radiopaque marker reduces friction upon insertion and precision placement of the distal tip<sup>8</sup>

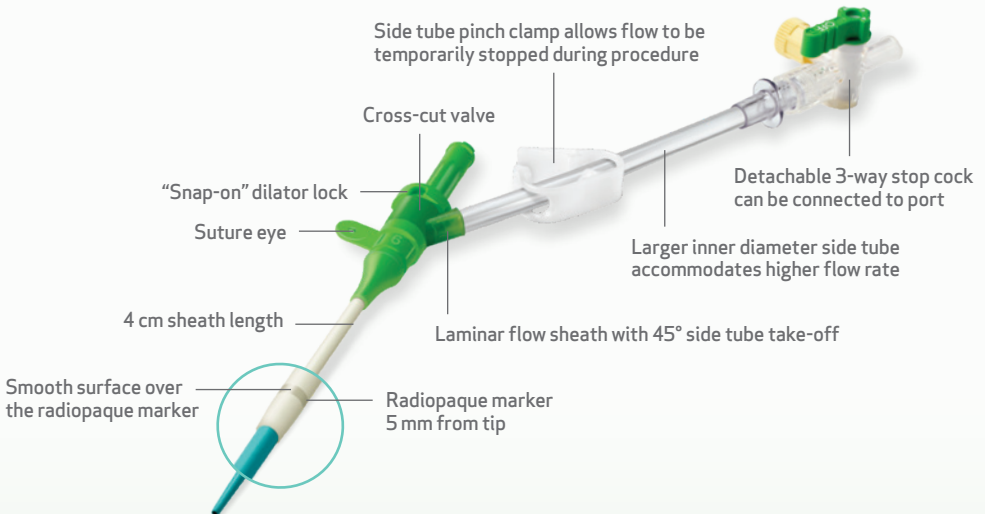


## Pinnacle® R/O II HiFlo

Radiopaque Marker Introducer Sheaths

**Higher flow rates with 45° side tube take-off provides smooth flow dynamic within the sheath<sup>9</sup>**

Shorter 4 cm sheath and stiff dilator enhances pushability for easier and more efficient superficial access procedures<sup>9</sup>



PINNACLE® Sheaths are from the maker of the #1 preferred and most used introducer sheaths on the market

**Pinnacle® R/O II**

Radiopaque Marker Introducer Sheaths

**Pinnacle® R/O II HiFlo**

Radiopaque Marker Introducer Sheaths

**ORDERING INFORMATION**

Packed 10 per box and includes dilator. All dilators are 0.038" wire compatible.

**PINNACLE® R/O II Radiopaque Marker Introducer Sheath**

CODE	LENGTH (cm)	INNER DIAMETER (Fr)	DILATOR PROTRUDING LENGTH (cm)	MINI GUIDEWIRE DIAMETER (in)
RSB401	6	4	2.5	—
RSB501	6	5	2.5	—
RSB601	6	6	2.5	—
RSB701	6	7	2.5	—
RSB801	6	8	2.5	—
RSB901	6	9	2.5	—
RSB402	10	4	2.5	—
RSB502	10	5	2.5	—
RSB602	10	6	2.5	—
RSB702	10	7	2.5	—
RSB802	10	8	2.5	—
RSB902	10	9	2.5	—
RSB403	25	4	2.5	—
RSB503	25	5	2.5	—
RSB603	25	6	2.5	—
RSB703	25	7	2.5	—
RSB803	25	8	2.5	—
RSB903	25	9	2.5	—
RSB411	6	4	2.5	0.035
RSB511	6	5	2.5	0.038
RSB611	6	6	2.5	0.038
RSB711	6	7	2.5	0.038
RSB811	6	8	2.5	0.038
RSB911	6	9	2.5	0.038
RSB412	10	4	2.5	0.035
RSB512	10	5	2.5	0.038
RSB612	10	6	2.5	0.038
RSB712	10	7	2.5	0.038
RSB812	10	8	2.5	0.038
RSB912	10	9	2.5	0.038

**PINNACLE® R/O II HiFlo Introducer Sheath**

CODE	SHEATH SIZE (Fr)	SHEATH LENGTH (cm)	MAX GUIDEWIRE COMPATIBLE	SHORT GUIDEWIRE
RSB604H	6	4	0.038"	Spring 0.035"/40cm
RSB704H	7	4	0.038"	Spring 0.035"/40cm
RSB804H	8	4	0.038"	Spring 0.035"/40cm
RSB605H	6	4	0.038"	No Wire
RSB705H	7	4	0.038"	No Wire
RSB805H	8	4	0.038"	No Wire

**FIND OUT MORE**  Phone: 800.862.4143  [terumo.com](http://terumo.com)  Fax: 800.411.5870



# Pinnacle® Destination®

Guiding Sheath

Shapes and sizes to meet your diagnostic challenges<sup>10</sup>

## Unique atraumatic tip

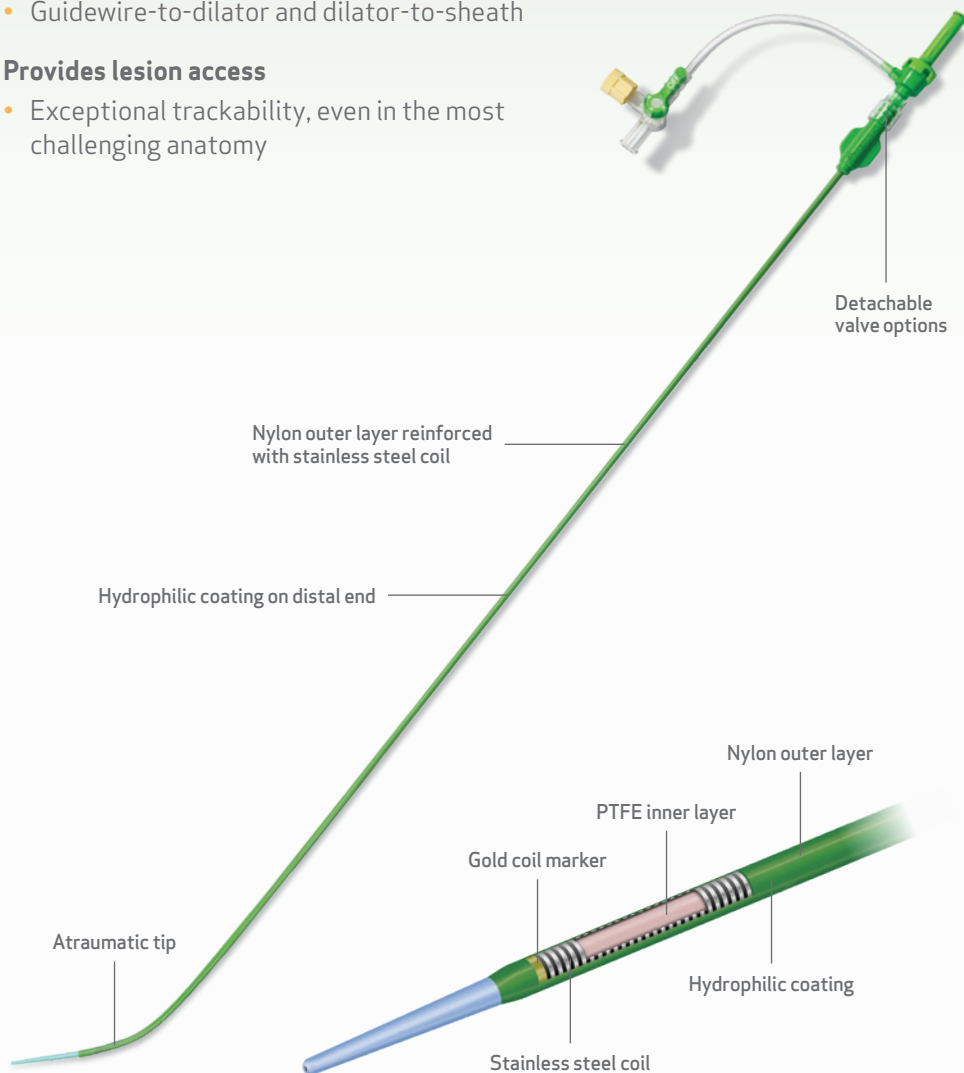
- Minimizes potential for vessel damage

## Smooth transitions

- Guidewire-to-dilator and dilator-to-sheath

## Provides lesion access

- Exceptional trackability, even in the most challenging anatomy




PINNACLE® Sheaths are from the maker of the #1 preferred and most used introducer sheaths on the market

# Pinnacle® Destination®


## Guiding Sheath

5 Fr




0.076"  
(1.92 mm)

6 Fr



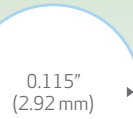
0.087"  
(2.21 mm)

7 Fr



0.101"  
(2.57 mm)















































8 Fr






0.115"  
(2.92 mm)

## ORDERING INFORMATION

Packed 1 per box and includes dilator. All dilators are 0.038" wire compatible.

PINNACLE® DESTINATION Guiding Sheaths						
FRENCH SIZE	PRODUCT CODE	LENGTH (cm)	HYDROPHILIC COATING LENGTH (cm)	VALVE TYPE	CURVE STYLE	CURVE SHAPE
5 Fr	54-54501	45	35	Cross-Cut	Straight	
	54-54502	45	5	Cross-Cut	Hockey Stick	
	54-54503	45	5	Cross-Cut	Multi-Purpose	
	54-54504	45	5	Cross-Cut	RDC	
6 Fr	54-64501	45	35	Cross-Cut	Straight	
	54-64506	45	35	Tuohy-Borst	Straight	
	RSR01	45	5	Cross-Cut	Straight	
	RSR02	45	5	Cross-Cut	Hockey Stick	
	RSR03	45	5	Cross-Cut	Multi-Purpose	
	RSR07	45	5	Tuohy-Borst	Straight	
	RSR08	45	5	Tuohy-Borst	Hockey Stick	
	RSR09	45	5	Tuohy-Borst	Multi-Purpose	
	RSR13	45	5	Cross-Cut	RDC	
	RSR14	45	5	Cross-Cut	LIMA	
	RSR17	45	5	Tuohy-Borst	RDC	
	RSR18	45	5	Tuohy-Borst	LIMA	
	RSP01	65	35	Cross-Cut	Straight	
	RSP03	65	35	Tuohy-Borst	Straight	
	RSC01	90	15	Tuohy-Borst	Straight	
	RSC03	90	15	Tuohy-Borst	Multi-Purpose	
	RSC05	90	15	Cross-Cut	Straight	
RSC07	90	15	Cross-Cut	Multi-Purpose		
7 Fr	54-74501	45	35	Cross-Cut	Straight	
	54-74506	45	35	Tuohy-Borst	Straight	
	RSR04	45	5	Cross-Cut	Straight	
	RSR05	45	5	Cross-Cut	Hockey Stick	
	RSR06	45	5	Cross-Cut	Multi-Purpose	
	RSR10	45	5	Tuohy-Borst	Straight	
	RSR11	45	5	Tuohy-Borst	Hockey Stick	
	RSR12	45	5	Tuohy-Borst	Multi-Purpose	
	RSR15	45	5	Cross-Cut	RDC	
	RSR16	45	5	Cross-Cut	LIMA	
	RSR19	45	5	Tuohy-Borst	RDC	
	RSR20	45	5	Tuohy-Borst	LIMA	
	RSP02	65	35	Cross-Cut	Straight	
	RSP04	65	35	Tuohy-Borst	Straight	
	RSC02	90	15	Tuohy-Borst	Straight	
RSC04	90	15	Tuohy-Borst	Multi-Purpose		
RSC06	90	15	Cross-Cut	Straight		
RSC08	90	15	Cross-Cut	Multi-Purpose		
8 Fr	54-84501	45	35	Cross-Cut	Straight	
	54-84506	45	35	Tuohy-Borst	Straight	
	54-86501	65	35	Cross-Cut	Straight	
	54-86506	65	35	Tuohy-Borst	Straight	
	54-89001	90	60	Cross-Cut	Straight	
	54-89006	90	60	Tuohy-Borst	Straight	

## FIND OUT MORE

Phone: 800.862.4143  [terumo.is.com](http://terumo.is.com)  Fax: 800.411.5870 






# PUSHING BOUNDARIES

Terumo Interventional Systems is **committed to your success** with innovative procedural solutions and ongoing support for your most challenging cases.

We are relentlessly seeking new ways to help you apply effective solutions and achieve **better outcomes for more patients.**

**FIND OUT MORE**  Phone: 800.862.4143  [terumo.com](http://terumo.com)  Fax: 800.411.5870

**RX ONLY.** Refer to the product labels and package insert for complete warnings, precautions, potential complications, and instructions for use.

**References:**

1. Kugelmass AD, Cohen DJ, Brown PP, et al. *Am J Cardiol.* 2006;97(3):322-327. 2. Aguirre FV, Gill JB. *J Invasive Cardiol.* 2002;14(suppl B):48B-54B. 3. Pinto DS, Stone GW, Shi C, et al. *J Am Coll Cardiol.* 2008;52(22):1758-1768. 4. Criado FJ. *Vasc Dis Manage.* 2009;6(1):28-29. 5. Data on file. MAK Design Verification Report #20110024 5/23/11. 6. Data on file. Pinnacle Precision Access System Competitor Evaluation Report #20170018. 7. Data on file. Pinnacle and Pinnacle TIF Tip Competitor Evaluation Report #20170019. 8. Data on file. Pinnacle R/O II Competitor Evaluation Report #20170020. 9. Data on file. Pinnacle R/OII HiFlo Competitor Evaluation Report #20170021.

©2019 Terumo Medical Corporation. All rights reserved. All brand names are trademarks or registered trademarks of their respective owners. PM-02184

 **TERUMO**  
INTERVENTIONAL  
SYSTEMS