



# Barbed Suture Catalog



# Operating as one. Focused on you.

Corza Medical is a medical device and biosurgery company with decades of experience delivering innovative products to the global surgical community. We are committed to providing an exceptional customer experience, high quality products and outstanding value.

Corza Medical's mission is to aid and champion the surgical community with outstanding products and remarkable service that save time, money and effort. We provide medical devices as well as biosurgery products and technologies that serve surgeons and their teams, distributors and OEM partners around the world.

With an expanding platform of industry-leading brands, our goal is to deliver an exceptional customer experience and outstanding value to the entire surgical community.



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# Quill® Barbed Suture

Designed for knotless approximation.

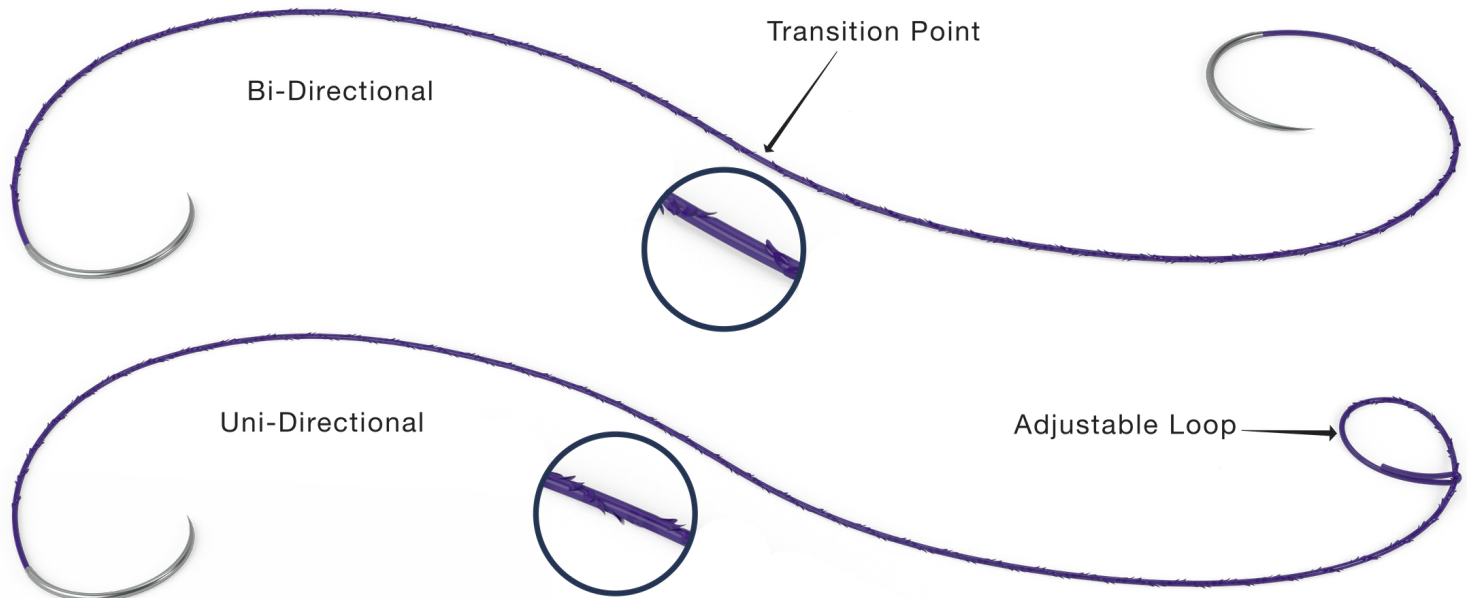
We have a versatile and extensive line offered in bi-directional and uni-directional configurations. Available in Monoderm™, PDO and Polypropylene materials.

We offer a variety of sizes from 5-0 to 2 that are fitted with premium needles for your wound closure needs.



# Suture Configurations

Available in Monoderm™, PDO and Polypropylene materials



## Bi-Directional

Barbs are arranged in opposing directions on either side of a transitional unbarbed segment.

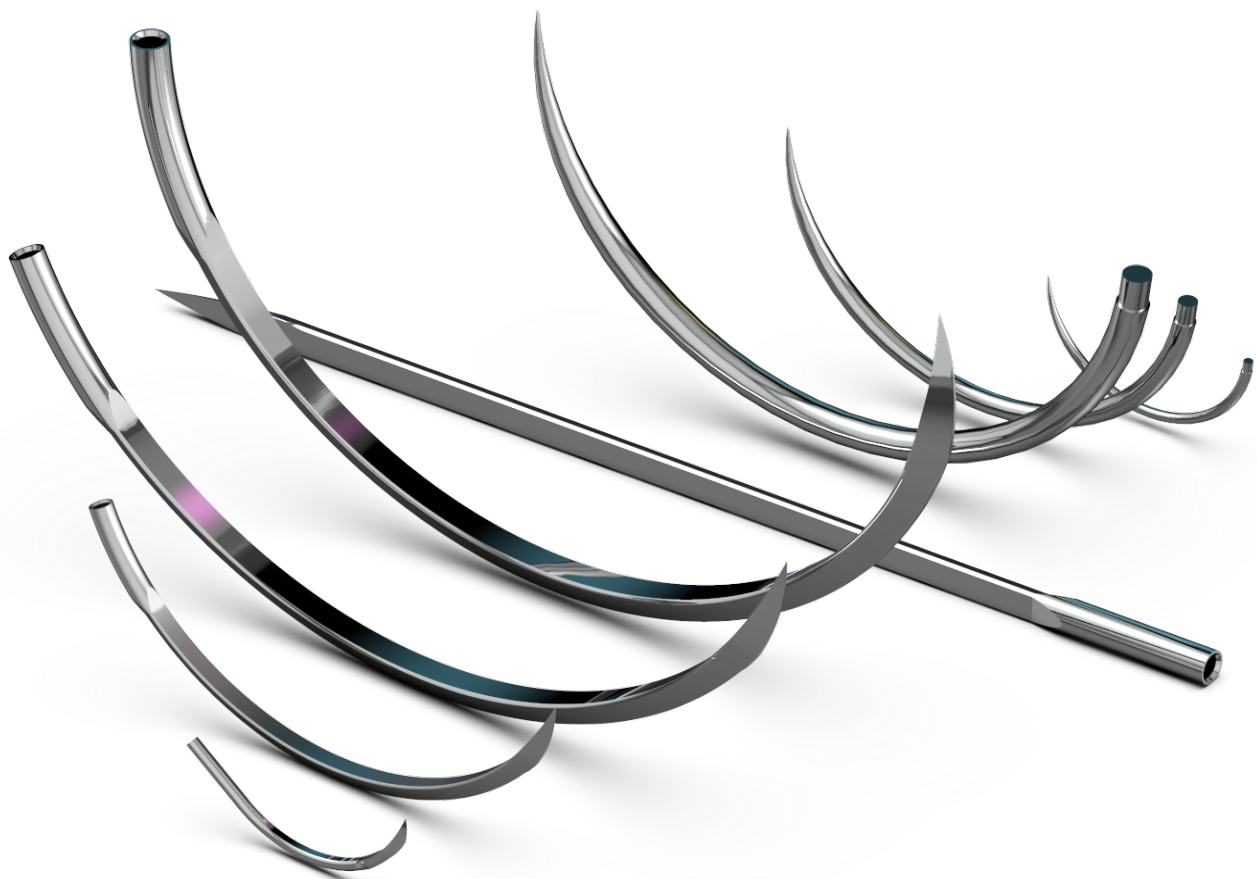
## Uni-Directional

Barbs are arranged in a spiral along the suture and the adjustable loop design allows for easy needle placement.

**Quill** **BARBED SUTURE**

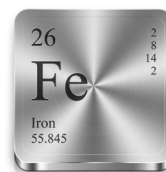
## Quill barbed sutures are fitted with premium surgical needles that are engineered for effortless control.

Materials, geometry, and coatings work together to produce a high performance surgical instrument.

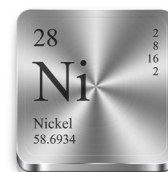


### Proprietary Stainless Steel Alloy

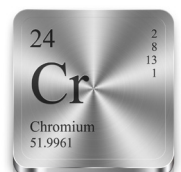
Quill needles are forged from an alloy of Iron, Nickel, and Chromium. Each element serves a role in delivering strength, ductility, and hardness.



Strength



Ductility



Hardness

## Needle Terminology

**Length:** Distance measured along the circumference of the needle, from the point to the swage. It is depicted on the packaging.

**Shape:** Different surgeries or surgical techniques demand different needle shapes.

**Point:** The sharpened part of the needle that first penetrates the tissue. The point consists of the area from the sharpened tip of the needle to the widest cross section of the needle body. The point determines ease of penetration and the initial size and shape of the hole.

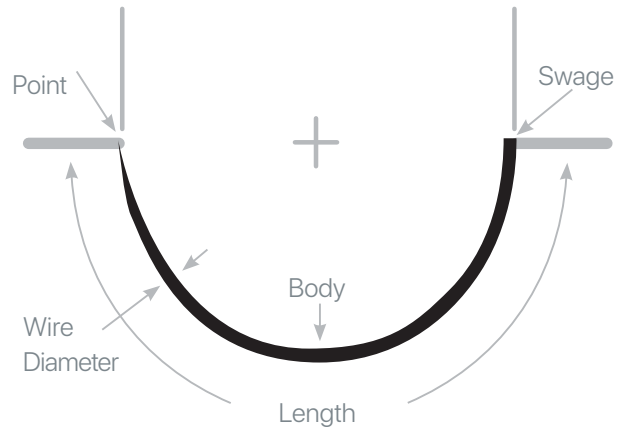
**Swage:** Connection point of the suture and the needle. Micro teeth grip the suture material and prevent it from slipping out.

**Wire Diameter:** Gauge or thickness of the wire originally used to form the needle body.

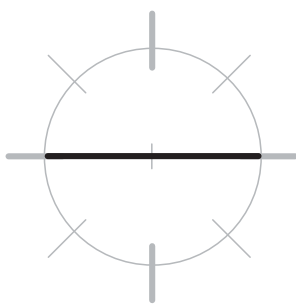
**Body:** The part between the point and the swage of the needle.

**Included Angle (Curvature):** The fraction of the circle included in the curve of the needle. This is depicted on the packaging.

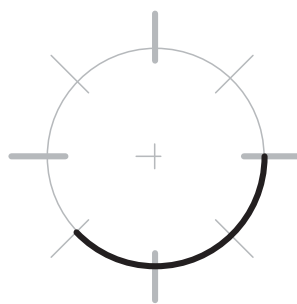
## Needle Anatomy



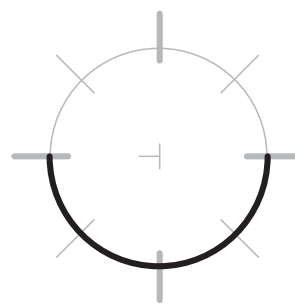
## Needle Shapes and General Uses



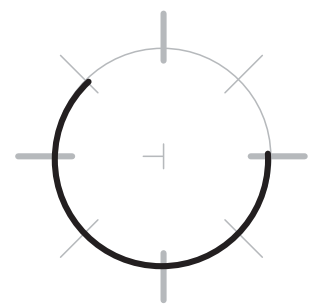
Straight (aka: Keith):  
Skin Closure



3/8 Circle:  
Skin Closure



1/2 Circle:  
Skin Closure, GI, Cardiovascular



5/8 Circle:  
Robotics and Laparoscopic

# Needle Chart

Note: Actual needle lengths can vary within +/- 1mm.

## Precision Reverse Cutting Needles ▽

Corza Medical	Ethicon™	Medtronic™	
3/8 Circle			
P-1	P-1	P-10	11mm
P-3	P-3	P-13	13mm
PS-2	PS-2	P-12	19mm
PS-1	PS-1	P-14	24mm
PS	PS	P-15	26mm
PSL	PSL	P-17	30mm

## Taper Cutting Needles ◉

Corza Medical	Ethicon™	Medtronic™	
STC8	•	•	50mm

## Straight Cutting Needles ▽






Corza Medical	Ethicon™	Medtronic™	
TS	•	•	51mm
KS	•	•	61mm
SC19	•	•	70mm

## Reverse Cutting Needles ▽

Corza Medical	Ethicon™	Medtronic™	
1/2 Circle			
OS-2	OS-2	•	18mm
OS-6	OS-6	HOS-11	40mm
OS-8	OS-8	•	26mm
CP-2	CP-2	GS-10	36mm
CP-1	CP-1	•	40mm
CP	CP	GS-12	40mm

## Taper Point Needles ◉

Corza Medical	Ethicon™	Medtronic™	
1/2 Circle			
RB-1	RB-1	CV-23	17mm
SH-1	SH-1	CV-25	22mm
SH	SH	V-20	26mm
CT-2	CT-2	GS-22	36mm
CT-1	CT-1	GS-21	36mm
V-30	•	V-30	30mm
CT	CT	GS-24X	40mm
CTX	CTX	GC-25	48mm
TP-1	TP-1	GS-26	65mm
5/8 Circle			
UR-6	UR-6	GU-46	26mm
S-18	•	•	33mm
SKI-23	•	•	

Needle Type	Point Geometry	Description	Commonly Used For
Reverse Cutting		Triangular point with cutting edge on the outer curvature	Skin closure, ligamentous or fibrous tissues
Precision Reverse Cutting		Triangular point with cutting edge on the outer curvature and precision for added sharpness	Primarily used in plastic surgery for delicate procedures and where a good cosmetic result is desired
Taper Point		Round shaft, straight or curved, taper point with no cutting edge	Soft tissue closure such as fascia, vascular, gastrointestinal, and most soft tissue below the skin
Taper Cutting		Four (4) cutting edges with a taper shaft	For penetration through tough tissue
Straight Cutting		Reverse cutting tip on a straight shaft	General skin closure

## Quill is the only barbed suture with true USP sizing

For example, when Quill is manufactured, it starts with a USP 2-0 suture thread, the thread is barbed, and finally it is labeled as a Quill 2-0.

Conversely, the competitor\*, starts with a USP 2-0 suture thread, the thread is barbed, and is labeled as a 3-0.

Therefore, Quill 2-0 and the competitor 3-0 have the same thread diameter.

\*V-Loc™ and Stratafix™

Thread Diameter	Quill USP Size	V-Loc™ / Stratafix™ USP Size
0.60 mm	2	1
0.53 mm	1	0
0.45 mm	0	2-0
0.38 mm	2-0	3-0
0.30 mm	3-0	4-0
0.25 mm	4-0	5-0
0.17 mm	5-0	6-0

	Short-Term	Long-Term	Non-Absorbable
Material	Monoderm (PGA-PCL)	PDO (polydioxanone)	Polypropylene
Description	Monofilament Undyed (Clear) Dyed (Violet)	Monofilament Dyed (Violet)	Monofilament Undyed (Clear) Dyed (Blue)
BSR Profile	In vivo strength retention: 42% to 76% at 7 days 36% to 52% at 14 days	In vivo strength retention: 80% at 2 weeks 60% at 4 weeks 40% at 6 weeks	Polypropylene is not absorbed, nor is any significant change in tensile strength retention known to occur in vivo.
Mass Absorption	Essentially complete between 90 and 120 days.	Minimal until approximately 120 days. Essentially complete by 180 days.	

Comparable to V-Loc™-90

Comparable to V-Loc™-180

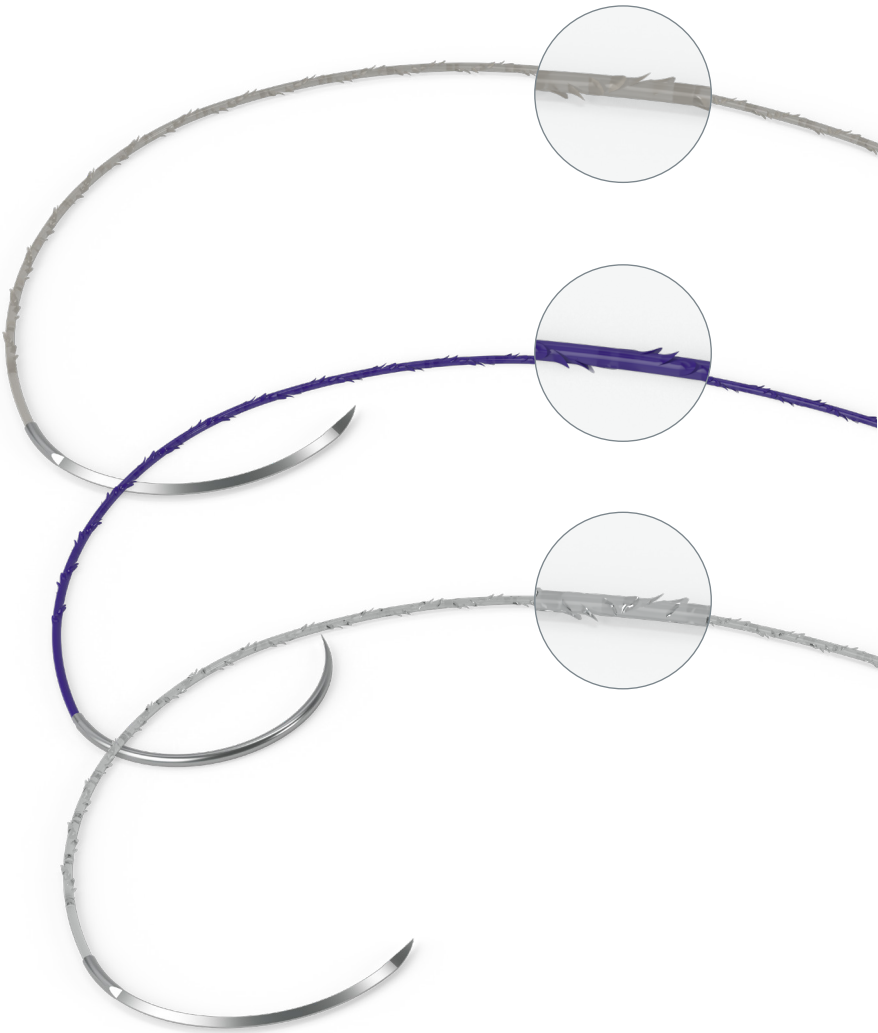
Comparable to V-Loc™-PBT

See Instructions For Use supplied with Quill barbed suture for indications, contraindications, warnings, and potential complications.

**Monoderm** is a synthetic absorbable monofilament. It has excellent pliability and handling characteristics and popular for subcuticular closure and soft tissue approximation.

**PDO** is a synthetic absorbable monofilament indicated for use in general soft tissue approximation and/or ligation but not for use in cardiovascular or neurological tissues, microsurgery or ophthalmic surgery.

**Polypropylene** is a synthetic non-absorbable monofilament suture. Tensile strength is superior to other true monofilaments. In addition, a unique extruding technique ensures a uniformly round cross section and a strand that passes easily through tissue.








# Monoderm (PGA-PCL) Bi-Directional

ABSORBABLE



## Precision Reverse Cutting

Length

	Color	cm	in	5-0	4-0	3-0	2-0	0
<b>P-1</b> 11 mm 3/8 circle 	Undyed	14 x 14	5 x 5	YA-2002Q	YA-2004Q	YA-1020Q		
<b>P-3</b> 13 mm 3/8 circle 	Undyed	14 x 14	5 x 5	YA-2003Q	YA-2005Q			
<b>PS-2</b> 19 mm 3/8 circle 	Undyed	3 x 3	1 x 1			YA-1019Q	YA-1018Q	
		7 x 7	3 x 3			YA-1001Q-0	YA-1000Q	
		14 x 14	5 x 5			YA-2016Q	YA-1012Q	YA-1004Q
		30 x 30	12 x 12			YA-2021Q	YA-2022Q	
		40 x 40	16 x 16			YA-2031Q	YA-2032Q	
<b>PS-1</b> 24 mm 3/8 circle 	Undyed	30 x 30	12 x 12			YA-2023Q	YA-2024Q	
		40 x 40	16 x 16			YA-2033Q	YA-2034Q	
<b>PS</b> 26 mm 3/8 circle 	Undyed	7 x 7	3 x 3				YA-1011Q	YA-1010Q
		14 x 14	5 x 5				YA-1015Q-0	
		30 x 30	12 x 12			YA-1023Q-0	YA-1024Q-0	

## Reverse Cutting

Length



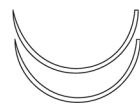
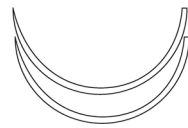
	Color	cm	in	5-0	4-0	3-0	2-0	0
<b>CP-2</b> 26 mm 1/2 circle 	Undyed	14 x 14	5 x 5					YA-1014Q
<b>CP-1</b> 36 mm 1/2 circle 	Undyed	36 x 36	14 x 14					YA-2036Q
		45 x 45	18 x 18					YA-2035Q

# Monoderm (PGA-PCL) Bi-Directional

ABSORBABLE


## Taper Point

Length

	Color	cm	in	4-0	3-0	2-0	0
<b>RB-1</b> 17 mm 1/2 circle 	Undyed	16 x 16	6 x 6		RS-1001Q	VP-1000Q	
	Violet	10 x 10	4 x 4	RS-1010Q			
		16 x 16	6 x 6			VP-2000Q	
<b>SH-1</b> 22 mm 1/2 circle 	Violet	16 x 16	6 x 6			RS-1004Q	
<b>SH</b> 26 mm 1/2 circle 	Undyed	16 x 16	6 x 6			RS-1005Q	
<b>CT-1</b> 36 mm 1/2 circle 	Undyed	14 x 14	5 x 5				YA-1003Q
		36 x 36	14 x 14				YA-1029Q

## Straight Cutting

Length





	Color	cm	in	4-0	3-0	2-0	0
<b>SC19</b> 70 mm straight 	Undyed	30 x 30	12 x 12			YA-1050Q	YA-1051Q

# PDO (Polydioxanone) Bi-Directional

ABSORBABLE




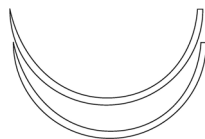
## Precision Reverse Cutting

Length

	Color	cm	in	4-0	3-0	2-0	0	1	2
<b>P-1</b>  12 mm 3/8 circle	Violet	7 x 7	3 x 3		RA-1017Q				
<b>PS-2</b>  19 mm 3/8 circle	Violet	3 x 3	1 x 1		RA-1008Q	RA-1002Q			
		7 x 7	3 x 3	RA-1012Q-0	RA-1010Q	RA-1007Q			
		14 x 14	5 x 5		RA-1050Q-0	RA-1046Q			
		24 x 24	9 x 9		RA-1051Q-0	RA-1036Q-0			
<b>PS-1</b>  24 mm 3/8 circle	Violet	45 x 45	18 x 18				RA-1090Q		
<b>PS</b>  26 mm 3/8 circle	Violet	7 x 7	3 x 3			RA-1016Q	RA-1015Q		
		14 x 14	5 x 5		RA-1021Q	RA-1020Q-0	RA-1019Q-0		
		24 x 24	9 x 9		RA-1052Q-0	RA-1028Q-0	RA-1030Q-0		

## Reverse Cutting

Length

	Color	cm	in	4-0	3-0	2-0	0	1	2
<b>OS-2</b>  19 mm 1/2 circle	Violet	14 x 14	5 x 5				RA-1001Q		
<b>CP-2</b>  26 mm 1/2 circle	Violet	14 x 14	5 x 5					RA-1004Q	RA-1006Q
		24 x 24	9 x 9		RA-1056Q-0			RA-1032Q	RA-1034Q
<b>CP-1</b>  36 mm 1/2 circle	Violet	36 x 36	14 x 14				RX-2069Q		
		45 x 45	18 x 18				RX-2068Q		
<b>CP</b>  40 mm 1/2 circle	Violet	36 x 36	14 x 14						RX-1066Q
		45 x 45	18 x 18						RX-2066Q




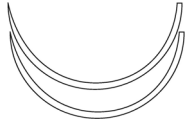

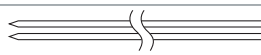
\*As with traditional sutures, Quill barbed suture size is determined by its OUTER diameter, it is therefore recommended that when using Quill barbed sutures, you upsize by one USP compared with traditional suture. For example, if previously using a 3-0 traditional suture, we recommend using a 2-0 Quill barbed suture.

# PDO (Polydioxanone) Bi-Directional

## ABSORBABLE


### Taper Point

Length

	Color	cm	in	4-0	3-0	2-0	0	1	2
<b>RB-1</b>  17 mm 1/2 circle	Violet	7 x 7	3 x 3	RA-2070Q					
<b>SH-1</b>  22 mm 1/2 circle	Violet	14 x 14	5 x 5			RA-1086Q		RA-1088Q	
<b>SH</b>  26 mm 1/2 circle	Violet	10 x 10	4 x 4			RA-1077Q	RA-1078Q		
		14 x 14	5 x 5				RA-1079Q		
		40 x 40	16 x 16			RA-1057Q			
 <b>CT-1</b> 36 mm 1/2 circle	Violet	7 x 7	3 x 3				RX-1068Q		
		14 x 14	5 x 5				RA-1000Q	RA-1003Q	RA-1005Q
		24 x 24	9 x 9				RA-1029Q	RA-1031Q	RA-1033Q
		30 x 30	12 x 12					RA-1059Q	RA-1058Q
		36 x 36	14 x 14				RA-1067Q		RX-1062Q
		45 x 45	18 x 18				RA-2067Q		
 <b>CTX</b> 48 mm 1/2 circle	Violet	30 x 30	12 x 12				RA-1060Q		
		36 x 36	14 x 14						RA-1065Q
		45 x 45	18 x 18						RA-2065Q
 <b>S-18</b> 33 mm straight	Violet	10 x 10	4 x 4				RA-1085Q		


### Taper Cutting

Length

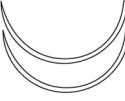
	Color	cm	in	4-0	3-0	2-0	0	1	2
 <b>STC8</b> 50 mm straight	Violet	7 x 7	3 x 3			RA-1013Q	RA-1023Q	RA-1024Q	

\*As with traditional sutures, Quill barbed suture size is determined by its OUTER diameter, it is therefore recommended that when using Quill barbed sutures, you upsize by one USP compared with traditional suture. For example, if previously using a 3-0 traditional suture, we recommend using a 2-0 Quill barbed suture.



### Precision Reverse Cutting

		Length					
	Color	cm	in	2-0	0	1	2
<b>PS-2</b> 19 mm 3/8 circle 	Undyed	7 x 7	3 x 3	JA-1006Q			

### Reverse Cutting

		Length					
	Color	cm	in	2-0	0	1	2
<b>CP-2</b> 26 mm 1/2 circle 	Undyed	14 x 14	5 x 5			JA-1005Q	JA-1001Q

### Taper Point



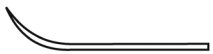




		Length					
	Color	cm	in	2-0	0	1	2
<b>SH-1</b> 22 mm 1/2 circle 	Undyed	14 x 14	5 x 5			JA-1050Q	
<b>CT-1</b> 36 mm 1/2 circle 	Undyed	24 x 24	9 x 9				JA-1007Q
		45 x 45	18 x 18				JA-2007Q

# Monoderm (PGA-PCL) Uni-Directional

ABSORBABLE

**Taper Point** 

Length



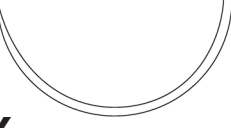
	Color	cm	in	3-0	2-0	0
<b>RB-1</b> 17 mm 1/2 circle 	Undyed	15	6		VLM-2014	
		20	8		VLM-1005	
	Violet	15	6	VLM-4013	VLM-2015	
		20	8		VLM-2005	
		30	12		VLM-1021	
 18 mm 1/2 circle	Violet	20	8	VLM-1008		
		30	12	VLM-1009		
<b>SKI-23</b> 23mm SKI 	Violet	23	9		VLM-2029	
 <b>SH</b> 26 mm 1/2 circle	Violet	15	6		VLM-2017	VLM-2013
		20	8		VLM-2006	VLM-1222
		23	9	VLM-2031		
		30	12		VLM-2024	VLM-2021
	Undyed	20	8		VLM-1006	
		30	12			VLM-1013
		45	18			VLM-1020
 <b>UR-6</b> 26 mm 5/8 circle	Violet	15	6		VLM-1018	
		20	8		VLM-2019	
		23	9	VLM-2030		
 <b>V-30</b> 30 mm 1/2 circle	Violet	23	9		VLM-2027	VLM-2020
 <b>CT-2</b> 26mm 1/2 circle	Undyed	15	6		VLM-4028	
		30	12		VLM-4029	
		45	18		VLM-4030	

# Monoderm (PGA-PCL) Uni-Directional

ABSORBABLE



## Taper Point

Length

	Color	cm	in	4-0	3-0	2-0	0
 <b>CT-1</b> 36 mm 1/2 circle	Violet	20	8				VLM-1025
		30	12				VLM-1015
	Undyed	20	8				VLM-1024
		30	12				VLM-1014
		45	18				VLM-2023
		60	24				VLM-1003
 <b>CT</b> 40mm 1/2 circle	Violet	70	28				VLM-1017
 <b>CTX</b> 48mm 1/2 circle	Violet	45	18				VLM-4000

## Precision Reverse Cutting

Length




	Color	cm	in	4-0	3-0	2-0	0
 <b>P3</b> 13 mm 3/8 circle	Undyed	20	8	VLM-3001	VLM-3002		
		30	12		VLM-3003		
 <b>PS-2</b> 19 mm 3/8 circle	Undyed	20	8	VLM-2007	VLM-3007	VLM-3009	
		30	12	VLM-2008	VLM-3008	VLM-3010	
		45	18		VLM-2018	VLM-2016	
		60	24		VLM-2004	VLM-2002	

# Monoderm (PGA-PCL) Uni-Directional

ABSORBABLE

## Precision Reverse Cutting

Length

	Color	cm	in	3-0	2-0	0
<b>PS-1</b> 24 mm 3/8 circle 	Undyed	20	8	VLM-1011		
		30	12	VLM-1012	VLM-1002	VLM-2022
		45	18		VLM-2012	
		60	24		VLM-1001	
<b>PS</b> 26 mm 3/8 circle 	Violet	20	8			VLM-1023
	Undyed	20	8			VLM-1022
<b>PSL</b> 30 mm 3/8 circle 	Undyed	70	28			VLM-4031



## Reverse Cutting

Length

	Color	cm	in	3-0	2-0	0
<b>CP-1</b> 36 mm 1/2 circle 	Violet	70	28			VLM-2040
<b>CP</b> 40 mm 1/2 circle 	Undyed	70	28			VLM-1016

## Straight Cutting



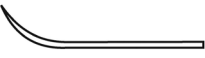


Length

	Color	cm	in	3-0	2-0	0
<b>TS</b> 51 mm 	Undyed	45	18		VLM-2025	
<b>KS</b> 60 mm 	Undyed	45	18		VLM-2028	

# PDO (Polydioxanone) Uni-Directional

## ABSORBABLE

### Taper Point





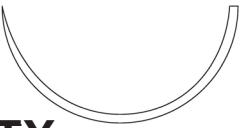

		Length						
	Color	cm	in	3-0	2-0	0	1	2
<b>RB-1</b> 17 mm 1/2 circle 	Violet	15	6	VLP-2046	VLP-2022	VLP-4109		
		20	8		VLP-2020			
<b>SH-1</b> 22 mm 1/2 circle 	Violet	15	6		VLP-2050			
		20	8			VLP-1008		
		23	9				VLP-4149	
		30	12		VLP-2002	VLP-1003		
<b>SKI-23</b> 23mm SKI 	Violet	23	9		VLP-2041			
<b>SH</b> 26 mm 1/2 circle 	Violet	15	6	VLP-2045	VLP-2021	VLP-2051		
		20	8	VLP-2043	VLP-2006	VLP-2008		
		23	9					VLP-4148
		30	12	VLP-2044	VLP-2033	VLP-2009		
		45	18		VLP-2039	VLP-2038		
<b>UR-6</b> 26 mm 5/8 circle 	Violet	15	6		VLP-2052			
		30	12				VLP-2053	

# PDO (Polydioxanone) Uni-Directional

## ABSORBABLE





Taper Point 

Length

	Color	cm	in	2-0	0	1	2
 <b>V-30</b> 30 mm 1/2 circle	Violet	23	9	VLP-2049			
 <b>CT-2</b> 26 mm 1/2 circle	Violet	15	6	VLP-4136			
		20	8	VLP-4137			
		23	9		VLP-4147		
		30	12		VLP-4135		
		70	28	VLP-4139	VLP-4140		
 <b>CT-1</b> 36 mm 1/2 circle	Violet	15	6				VLP-2030
		20	8		VLP-1001	VLP-2028	VLP-2016
		30	12	VLP-2042	VLP-1002	VLP-2015	VLP-2032
		45	18	VLP-2040	VLP-1004	VLP-2014	VLP-2025
		70	28		VLP-2012		VLP-2024
 <b>CT</b> 40 mm 1/2 circle	Violet	70	28			VLP-2013	
 <b>CTX</b> 48 mm 1/2 circle	Violet	45	18			VLP-2034	VLP-2037
		70	28				VLP-2010
 <b>TP-1</b> 65 mm 1/2 circle	Violet	45	18			VLP-2036	
		60	24				VLP-2031





### Precision Reverse Cutting

Length

	Color	cm	in	3-0	2-0	0	1	2
<b>P-3</b> 13 mm 3/8 circle 	Violet	20	8	VLP-3021				
		30	12	VLP-3022				
<b>PS-2</b> 19 mm 3/8 circle 	Violet	20	8	VLP-3026	VLP-3027			
		30	12	VLP-4132	VLP-3028			
		45	18	VLP-2029	VLP-2001			
<b>PS-1</b> 24 mm 3/8 circle 	Violet	30	12		VLP-3029			
		45	18		VLP-2026			
		60	24		VLP-2027			
<b>PS</b> 26 mm 3/8 circle 	Violet	20	8			VLP-1007		
		30	12			VLP-2005		

### Reverse Cutting

Length

	Color	cm	in	3-0	2-0	0	1	2
<b>CP-1</b> 36 mm 1/2 circle 	Violet	20	8			VLP-1005		
		30	12			VLP-1006		
		45	18			VLP-4138	VLP-4144	
		60	24			VLP-4143		
		70	28				VLP-4146	
<b>CP</b> 40 mm 1/2 circle 	Violet	45	18					VLP-2019
		70	28					VLP-2011
<b>OS-6</b> 36 mm 1/2 circle 	Violet	70	28			VLP-4142		
<b>OS-8</b> 40 mm 1/2 circle 	Violet	60	24				VLP-4134	

# Polypropylene Uni-Directional

NON-ABSORBABLE

**Taper Point**

Length

	Color	cm	in	3-0	2-0	0	1	2
<b>RB-1</b> 17 mm 1/2 circle 	Blue	15	6	VLO-4204				
		30	12		VLO-4219			
<b>SH-1</b> 22 mm 1/2 circle 	Undyed	15	6				VLO-1005	
		30	12			VLO-1001		
	Blue	15	6		VLO-4208	VLO-4207	VLO-4209	
		23	9					VLO-4225
		30	12			VLO-4214		
<b>SH</b> 26 mm 1/2 circle 	Undyed	15	6			VLO-4220		
	Blue	15	6		VLO-1011	VLO-1012		
		23	9		VLO-1010			
		30	12	VLO-4217	VLO-4215	VLO-4216		
		45	18				VLO-4218	
<b>CT-2</b> 26 mm 1/2 circle 	Blue	15	6				VLO-4224	
		23	9			VLO-4203	VLO-4223	
		45	18				VLO-4222	
<b>CT-1</b> 36 mm 1/2 circle 	Undyed	15	6				VLO-1004	VLO-1006
		20	8					VLO-1007
		45	18				VLO-1002	VLO-1003
	Blue	15	6				VLO-4205	VLO-4210
		20	8				VLO-4206	VLO-4211
		45	18				VLO-4212	VLO-4213
		70	28					VLO-4221

# Notes



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