



Barbed Suture Catalog



Quill® Barbed Suture

Designed for knotless approximation.

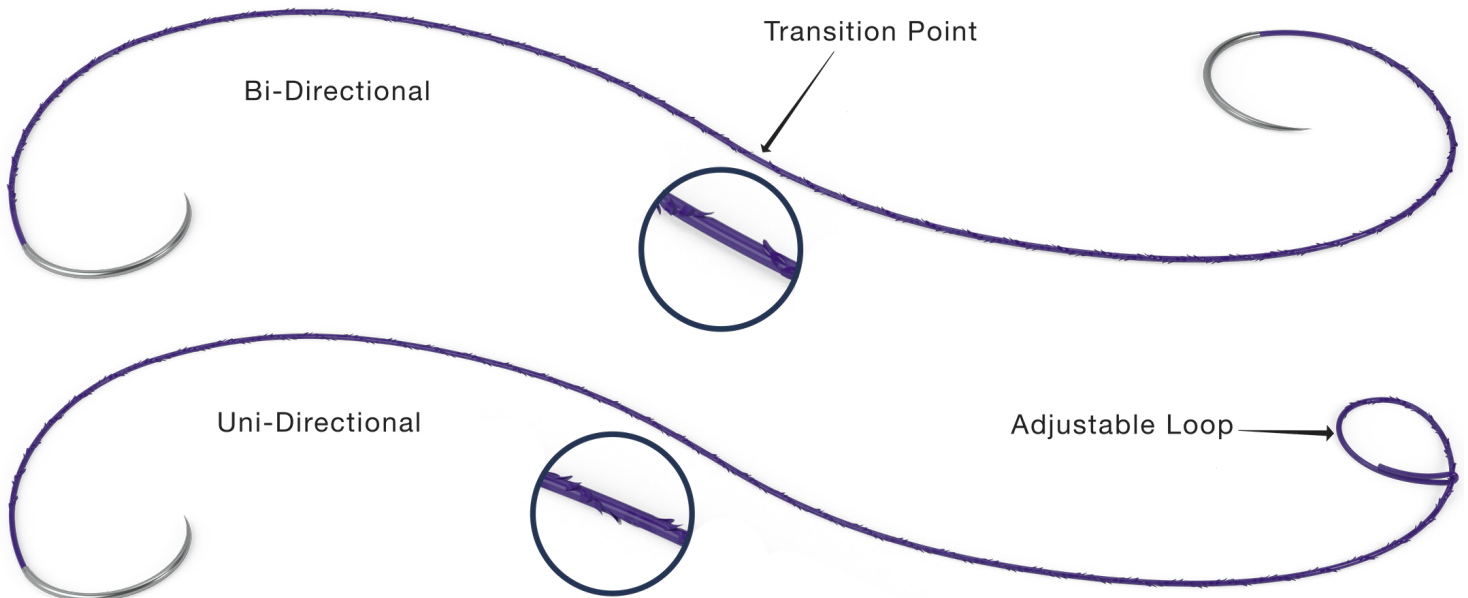
We have a versatile and extensive line offered in bi-directional and uni-directional configurations. Available in Monoderm™, PDO and Polypropylene materials.

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.

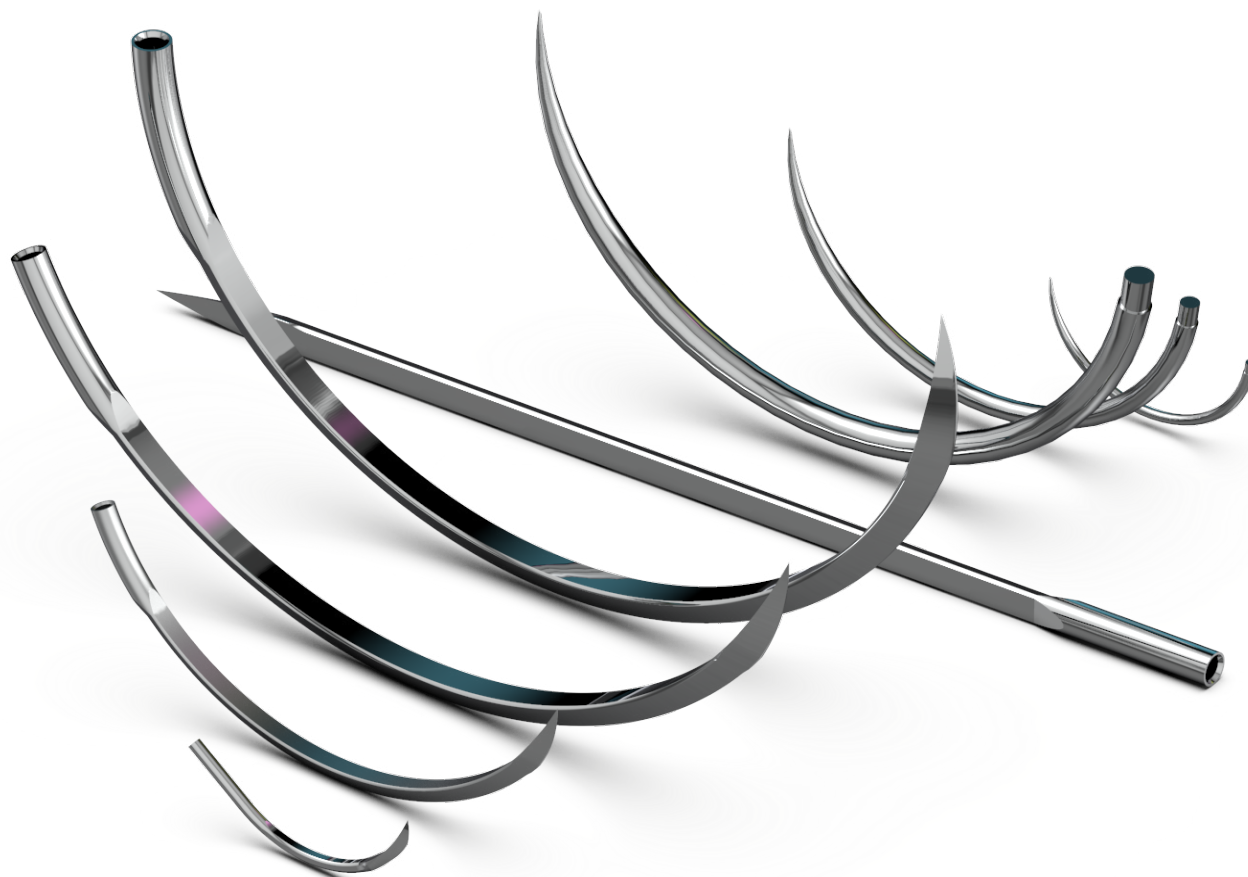
Uni-Directional

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



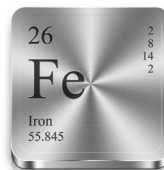
Quill® needle performance is an output of its design.

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

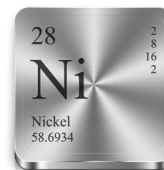


Proprietary Stainless Steel Alloy

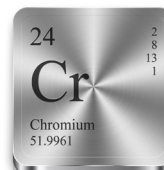
Quill® needles are forged from an alloy of Iron, Nickel, and Chromium. Each element serves a role in delivering strength, ductility, and hardness.



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.

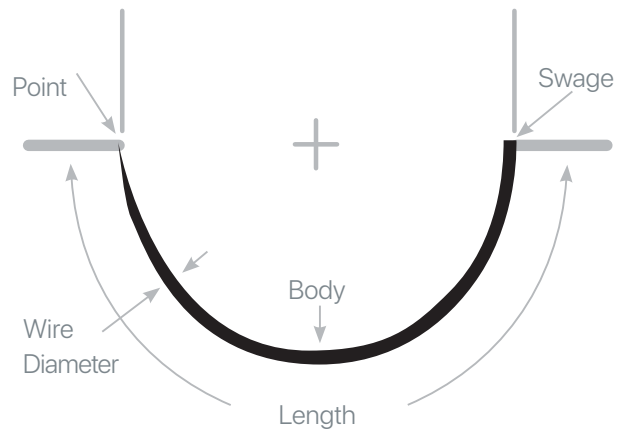
Swage: Connection point of the suture and the needle. Micro teeth grip the suture material and prevent it from slipping out.

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

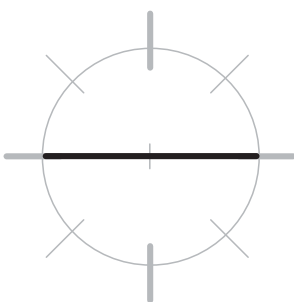
Body: The part between the point and the swage of the needle.

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

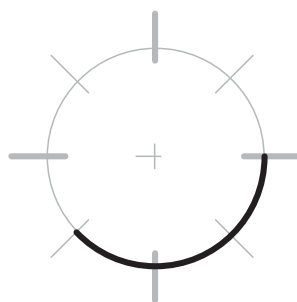
Needle Anatomy



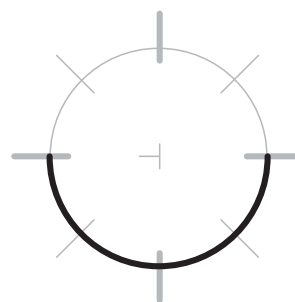
Needle Shapes and General Uses



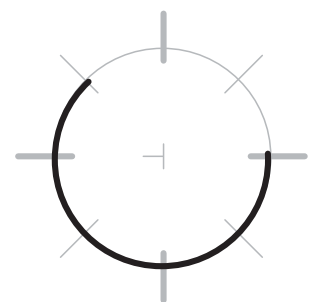
Straight (aka: Keith):
Skin Closure



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 ▽

Surgical Specialties	Ethicon™	Covidien™		
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

Taper Cutting Needles Ⓢ

Surgical Specialties	Ethicon™	Covidien™		
STC8	•	•	_____	50mm

Straight Cutting Needles ▽

Surgical Specialties	Ethicon™	Covidien™		
TS	•	•	_____	51mm
KS	•	•	_____	61mm
SC19	•	•	_____	70mm






Reverse Cutting Needles ▽

Surgical Specialties	Ethicon™	Covidien™		
1/2 Circle				
OS-2	OS-2	•	_____	18mm
OS-8	OS-8	•	_____	40mm
CP-2	CP-2	GS-10	_____	26mm
CP-1	CP-1	•	_____	36mm
CP	CP	GS-12	_____	40mm

Taper Point Needles Ⓢ

Surgical Specialties	Ethicon™	Covidien™		
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	_____	30mm
V-30	•	V-30	_____	40mm
CT	CT	GS-24X	_____	48mm
CTX	CTX	GC-25	_____	65mm
TP-1	TP-1	GS-26	_____	26mm
5/8 Circle				
UR-6	UR-6	GU-46	_____	33mm
S-18	•	•	_____	
SKI	•	•	_____	
SKI-23	•	•	_____	

Needle Points and Cutting Edges

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 precisioned 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

Materials Guide

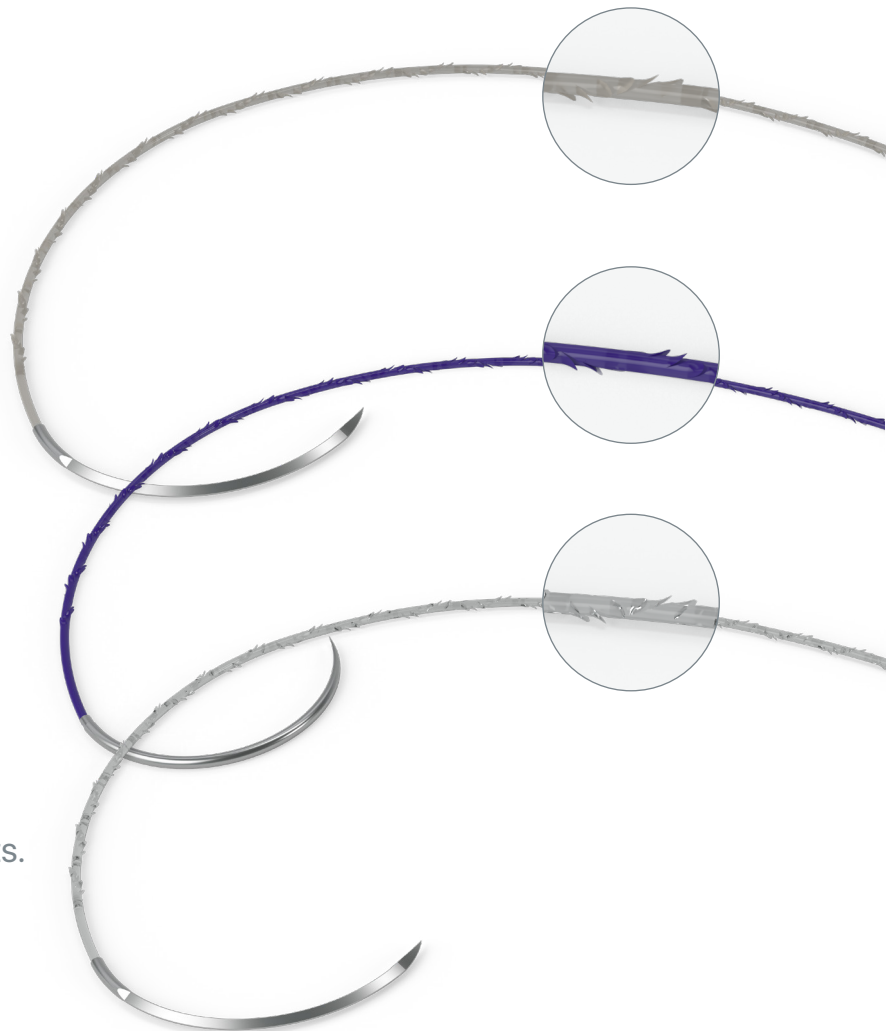
	Short-Term	Long-Term	Non-Absorbable
Material	Monoderm™ (PGA-PCL)	PDO (polydioxanone)	Polypropylene
Description	Monofilament Undyed (Clear) Dyed (Violet)	Monofilament Dyed (Violet)	Monofilament Undyed (Clear)
BSR Profile	In vivo strength retention: 42% to 76% at 7 days 36% to 52% at 14 days	In vivo strength 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





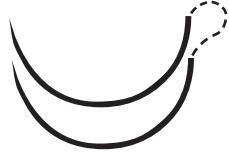


Needle	Color	Length	Size*				
			5-0	4-0	3-0	2-0	0
Monoderm™ – Precision Reverse Cutting 							
 P-1 11mm 3/8 circle	Undyed	14 cm x 14 cm	YA-2002Q	YA-2004Q	YA-1020Q		
 P-3 13 mm 3/8 circle	Undyed	14 cm x 14 cm	YA-2003Q	YA-2005Q			
 PS-2 19 mm 3/8 circle	Undyed	3.5 cm x 3.5 cm			YA-1019Q	YA-1018Q	
		7 cm x 7 cm			YA-1001Q-0	YA-1000Q	
		14 cm x 14 cm			YA-1016Q-0 YA-2016Q**	YA-1012Q	YA-1004Q
		30 cm x 30 cm			YA-1021Q-0 YA-2021Q**	YA-1022Q-0 YA-2022Q**	
		40 cm x 40 cm			YA-2031Q	YA-2032Q	
 PS-1 24 mm 3/8 circle	Undyed	30 cm x 30 cm			YA-2023Q	YA-2024Q	
		40 cm x 40 cm			YA-2033Q	YA-2034Q	
 PS 26 mm 3/8 circle	Undyed	7 cm x 7 cm				YA-1011Q	YA-1010Q
		14 cm x 14 cm				YA-1015Q-0	
		30 cm x 30 cm			YA-1023Q-0	YA-1024Q-0	
Monoderm™ – Reverse Cutting 							
 CP-2 26 mm 1/2 circle	Undyed	14 cm x 14 cm					YA-1014Q
 CP-1 36 mm 1/2 circle	Undyed	36 cm x 36 cm					YA-2036Q
		45 cm x 45 cm					YA-2035Q

**This SKU is identical to the one appearing directly above it.

*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.

Monoderm™ (PGA-PCL) Bi-Directional











ABSORBABLE

Needle	Color	Length	Size*			
			4-0	3-0	2-0	0
Monoderm™ – Taper Point 						
 RB-1 17 mm 1/2 circle	Undyed	16 cm x 16 cm		RS-1001Q	VP-1000Q RS-1000Q**	
	Violet	10cm x 10cm	RS-1010Q			
16 cm x 16 cm				VP-2000Q		
 SH-1 22 mm 1/2 circle	Violet	16 cm x 16 cm			RS-1004Q	
 SH 26 mm 1/2 circle	Undyed	16 cm x 16 cm			RS-1005Q	
 CT-1 36 mm 1/2 circle	Undyed	14 cm x 14 cm				YA-1003Q
		36 cm x 36 cm				YA-1029Q
Monoderm™ – Straight Cutting 						
 SC19 70 mm straight	Undyed	30 cm x 30 cm			YA-1050Q	YA-1051Q

**This SKU is identical to the one appearing directly above it.

PDO (Polydioxanone) Bi-Directional










ABSORBABLE

Needle	Color	Length	Size*				ABSORBABLE	
			4-0	3-0	2-0	0	1	2
PDO – Precision Reverse Cutting 								
 P-1 12 mm 3/8 circle	Violet	7 cm x 7 cm		RA-1017Q				
 PS-2 19 mm 3/8 circle	Violet	3.5 cm x 3.5 cm		RA-1008Q	RA-1002Q			
		7 cm x 7 cm	RA-1012Q-0	RA-1010Q	RA-1007Q			
		14 cm x 14 cm		RA-1050Q-0	RA-1046Q			
		24 cm x 24 cm		RA-1051Q-0	RA-1036Q-0			
 PS-1 24 mm 3/8 circle	Violet	45cm x 45cm				RA-1090Q		
 PS 26 mm 3/8 circle	Violet	7 cm x 7 cm			RA-1016Q	RA-1015Q		
		14 cm x 14 cm		RA-1021Q	RA-1020Q-0	RA-1019Q-0		
		24 cm x 24 cm		RA-1052Q-0	RA-1028Q-0	RA-1030Q-0		
PDO – Reverse Cutting 								
 OS-2 19 mm 1/2 circle	Violet	14 cm x 14 cm				RA-1001Q		
 CP-2 26 mm 1/2 circle	Violet	14 cm x 14 cm					RA-1004Q	RA-1006Q
		24 cm x 24 cm		RA-1056Q-0			RA-1032Q	RA-1034Q
 CP-1 36 mm 1/2 circle	Violet	36 cm x 36 cm				RX-2069Q		
		45 cm x 45 cm				RX-2068Q		
 CP 40 mm 1/2 circle	Violet	36 cm x 36 cm						RX-1066Q
		45 cm x 45 cm						

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PDO (Polydioxanone) Bi-Directional








ABSORBABLE

Needle	Color	Length	Size*						
			4-0	3-0	2-0	0	1	2	
PDO – Taper Point 									
 RB-1 17 mm 1/2 circle	Violet	7cm x 7cm	RA-2070Q						
 SH-1 22 mm 1/2 circle	Violet	14 cm x 14 cm			RA-1086Q			RA-1088Q	
 SH 26 mm 1/2 circle	Violet	10 cm x 10 cm			RA-1077Q	RA-1078Q			
		14 cm x 14 cm				RA-1079Q			
		40 cm x 40 cm			RA-1057Q				
 CT-1 36 mm 1/2 circle	Violet	7 cm x 7 cm				RX-1068Q			
		14 cm x 14 cm				RA-1000Q RX-1069Q**	RA-1003Q	RA-1005Q	
		24 cm x 24 cm				RA-1029Q RX-1029Q**	RA-1031Q RX-1031Q**	RA-1033Q RX-1033Q**	
		30 cm x 30 cm					RA-1059Q RX-1059Q**	RA-1058Q RX-1058Q**	
		36 cm x 36 cm				RA-1067Q		RX-1062Q	
		45 cm x 45 cm				RA-2067Q			
 CTX 48 mm 1/2 circle	Violet	30 cm x 30 cm				RA-1060Q			
		36 cm x 36 cm						RA-1065Q	
		45 cm x 45 cm						RA-2065Q	
 S-18 33 mm straight	Violet	10 cm x 10 cm				RA-1085Q			
PDO – Taper Cutting 									
 STC8 50 mm straight	Violet	7 cm x 7 cm			RA-1013Q	RA-1023Q	RA-1024Q		

**This SKU is identical to the one appearing directly above it.

Polypropylene Bi-Directional









NON-ABSORBABLE

Needle	Color	Length	Size*			
			2-0	0	1	2
Polypropylene – Precision Reverse Cutting 						
 PS-2 19 mm 3/8 circle	Undyed	7 cm x 7 cm	JA-1006Q			
Polypropylene – Reverse Cutting 						
 CP-2 26 mm 1/2 circle	Undyed	14 cm x 14 cm			JA-1005Q	JA-1001Q
Polypropylene – Taper Point 						
 SH-1 22 mm 1/2 circle	Undyed	14 cm x 14 cm			JA-1050Q	
 CT-1 36 mm 1/2 circle	Undyed	24 cm x 24 cm				JA-1007Q
		45 cm x 45 cm				JA-2007Q

*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.


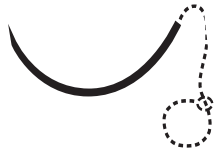

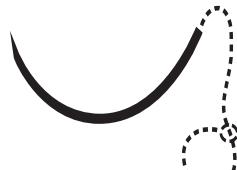



Monoderm™ (PGA-PCL) Uni-Directional

ABSORBABLE

Needle	Color	Length	Size*		
			3-0	2-0	0
Monoderm™ – Taper Point 					
 RB-1 17 mm 1/2 circle	Undyed	15 cm		VLM-2014	
		20 cm		VLM-1005	
	Violet	15 cm	VLM-4013	VLM-2015	
		20 cm		VLM-2005	
		30 cm		VLM-1021	
 18 mm 1/2 circle	Violet	20cm	VLM-1008		
		30cm	VLM-1009		
 SKI-23 23mm SKI	Violet	23cm		VLM-2029	
 SH 26 mm 1/2 circle	Violet	15 cm		VLM-2017	VLM-2013
		20 cm		VLM-2006	VLM-1222
		23 cm	VLM-2031		
		30cm		VLM-2024	VLM-2021
	Undyed	20 cm		VLM-1006	
		30 cm			VLM-1013
		45 cm			VLM-1020
 UR-6 26 mm 5/8 circle	Violet	15cm		VLM-1018	
		20cm		VLM-2019	
		23cm	VLM-2030		
 V-30 30 mm 1/2 circle	Violet	23cm		VLM-2027	VLM-2020
 CT-2 26mm 1/2 circle	Undyed	15cm		VLM-4028	
		30cm		VLM-4029	
		45cm		VLM-4030	

Monoderm™ (PGA-PCL) Uni-Directional

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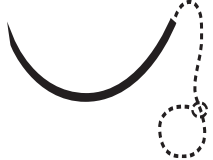




Needle	Color	Length	Size*			
			4-0	3-0	2-0	0
Monoderm™ – Taper Point 						
 CT-1 36 mm 1/2 circle	Violet	20cm				VLM-1025
		30cm				VLM-1015
	Undyed	20cm				VLM-1024
		30cm				VLM-1014
		45cm				VLM-2023
		60cm				VLM-1003
 CT 40mm 1/2 circle	Violet	70cm				VLM-1017
 CTX 48mm 1/2 circle	Violet	45cm				VLM-4000
Monoderm™ - Precision Reverse Cutting 						
 P3 13 mm 3/8 circle	Undyed	20 cm	VLM-3001	VLM-3002		
		30 cm		VLM-3003		
 PS-2 19 mm 3/8 circle	Undyed	20 cm	VLM-2007	VLM-3007 VLM-1010**	VLM-3009 VLM-1004**	
		30 cm	VLM-2008	VLM-3008 VLM-2003**	VLM-3010 VLM-2001**	
		45 cm		VLM-2018	VLM-2016	
		60 cm		VLM-2004	VLM-2002	

**This SKU is identical to the one appearing directly above it.

*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.





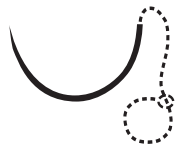

Monoderm™ (PGA-PCL) Uni-Directional

ABSORBABLE

Needle	Color	Length	Size*		
			3-0	2-0	0
Monoderm™ – Precision Reverse Cutting 					
 PS-1 24 mm 3/8 circle	Undyed	20cm	VLM-1011		
		30cm	VLM-1012	VLM-1002	VLM-2022
		45cm		VLM-2012	
		60cm		VLM-1001	
 PS 26 mm 3/8 circle	Violet	20cm			VLM-1023
	Undyed	20cm			VLM-1022
Monoderm™ – Reverse Cutting 					
 CP-1 36 mm 1/2 circle	Violet	70cm			VLM-2040
 CP 40 mm 1/2 circle	Undyed	70cm			VLM-1016
Monoderm™ – Straight Cutting 					
 TS 51 mm	Undyed	45cm		VLM-2025	
 KS 60 mm	Undyed	45cm		VLM-2028	

PDO (Polydioxanone) Uni-Directional








ABSORBABLE

Needle	Color	Length	Size*			
			3-0	2-0	0	1
PDO – Taper Point 						
 RB-1 17 mm 1/2 circle	Violet	15 cm	VLP-2046	VLP-2022	VLP-4109	
		20 cm		VLP-2020		
 SH-1 22 mm 1/2 circle	Violet	15cm		VLP-2050		
		20 cm			VLP-1008	
		30 cm		VLP-2002	VLP-1003	
 SKI-23 23mm SKI	Violet	23cm		VLP-2041		
 SH 26 mm 1/2 circle	Violet	15 cm	VLP-2045	VLP-2021	VLP-2051	
		20 cm	VLP-2043	VLP-2006	VLP-2008	
		30 cm	VLP-2044	VLP-2033	VLP-2009	
		45cm		VLP-2039	VLP-2038	
 UR-6 26 mm 5/8 circle	Violet	15cm		VLP-2052		
		30cm				VLP-2053

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PDO (Polydioxanone) Uni-Directional

ABSORBABLE

Needle	Color	Length	Size*			
			2-0	0	1	2
PDO – Taper Point 						
 V-30 30 mm 1/2 circle	Violet	23cm	VLP-2049			
 CT-2 26 mm 1/2 circle	Violet	15cm	VLP-4136			
		20cm	VLP-4137			
		30cm		VLP-4135		
 CT-1 36 mm 1/2 circle	Violet	15 cm				VLP-2030
		20 cm		VLP-1001	VLP-2028	VLP-2016
		30 cm	VLP-2042	VLP-1002	VLP-2015	VLP-2032
		45 cm	VLP-2040	VLP-1004	VLP-2014	VLP-2025
		70 cm		VLP-2012		VLP-2024
 CT 40 mm 1/2 circle	Violet	70 cm			VLP-2013	
 CTX 48 mm 1/2 circle	Violet	45cm			VLP-2034	VLP-2037
		70 cm				VLP-2010
 TP-1 65 mm 1/2 circle	Violet	45cm			VLP-2036	
		60 cm				VLP-2031

PDO (Polydioxanone) Uni-Directional







ABSORBABLE

Needle	Color	Length	Size*				
			3-0	2-0	0	1	2
PDO – Precision Reverse Cutting 							
 P-3 13 mm 3/8 circle	Violet	20 cm	VLP-3021				
		30 cm	VLP-3022				
 PS-2 19 mm 3/8 circle	Violet	20 cm	VLP-3026	VLP-3027			
		30 cm	VLP-4132	VLP-3028			
		45 cm	VLP-2029	VLP-2001			
 PS-1 24 mm 3/8 circle	Violet	30 cm		VLP-3029			
		45 cm		VLP-2026			
		60 cm		VLP-2027			
 PS 26 mm 3/8 circle	Violet	20 cm			VLP-1007		
		30 cm			VLP-2005		
PDO – Reverse Cutting 							
 CP-1 36 mm 1/2 circle	Violet	20 cm			VLP-1005		
		30 cm			VLP-1006		
 CP 40 mm 1/2 circle	Violet	45 cm					VLP-2019
		70 cm					VLP-2011
 OS-8 40 mm 1/2 circle	Violet	60cm				VLP-4134	

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Polypropylene Uni-Directional

NON-ABSORBABLE

Needle	Color	Length	Size*				
			3-0	2-0	0	1	2
Polypropylene – Taper Point 							
 RB-1 17 mm 1/2 circle	Blue	15cm	VLO-4204				
		30cm		VLO-4219			
 SH-1 22 mm 1/2 circle	Undyed	15 cm				VLO-1005	
		30 cm			VLO-1001		
	Blue	15cm		VLO-4208	VLO-4207	VLO-4209	
		30cm			VLO-4214		
 SH 26 mm 1/2 circle	Undyed	15cm			VLO-4220		
	Blue	15 cm		VLO-1011	VLO-1012		
		23 cm		VLO-1010			
		30cm	VLO-4217	VLO-4215	VLO-4216		
		45cm			VLO-4218		
 CT-2 26 mm 1/2 circle	Blue	23cm			VLO-4203		
 CT-1 36 mm 1/2 circle	Undyed	15 cm			VLO-1004	VLO-1006	
		20 cm				VLO-1007	
		45 cm			VLO-1002	VLO-1003	
	Blue	15cm				VLO-4205	VLO-4210
		20cm				VLO-4206	VLO-4211
		45cm				VLO-4212	VLO-4213



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