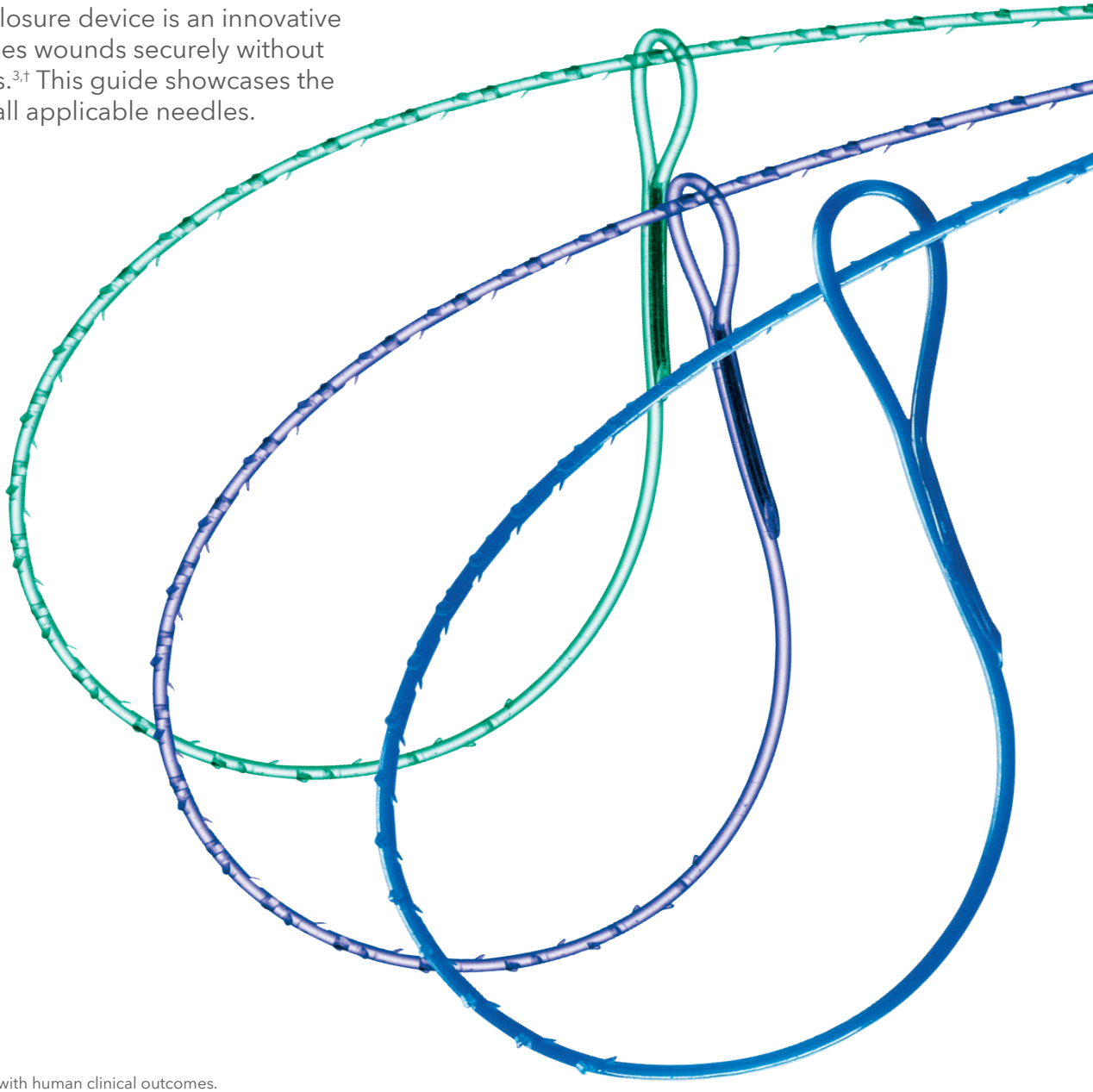
Medtronic

Product catalog

Secure. Fast. Effective.[1,2]

V-Loc™ wound closure device

The V-Loc™ wound closure device is an innovative technology that closes wounds securely without the need to tie knots.[3,†] This guide showcases the available sizes with all applicable needles.



†Animal data may not correlate with human clinical outcomes.

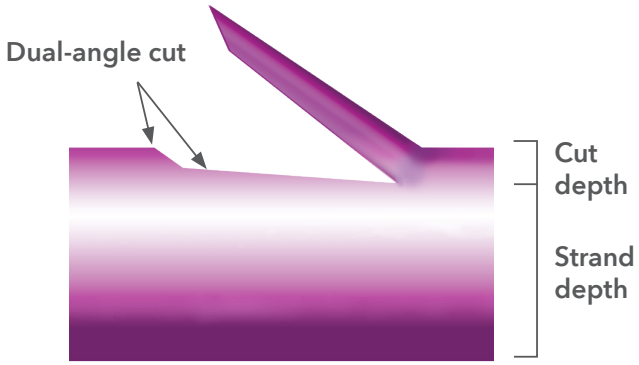
Competitive advantage

The V-Loc™ device wound closure strength fairs better by comparison to Quill™* and the V-Loc™ 180 device is statistically stronger than the long-term absorbable Stratafix™* Spiral.[3-5,‡] The unique dual-angle cut and barbing pattern of the V-Loc™ device creates the barbing technology, which is backed by ten years of clinical experience.[3,5,‡]

Barb design

V-Loc™ device utilizes a dual-angle cut that creates a strong anchoring barb while maintaining the strand's integrity.[3,†]

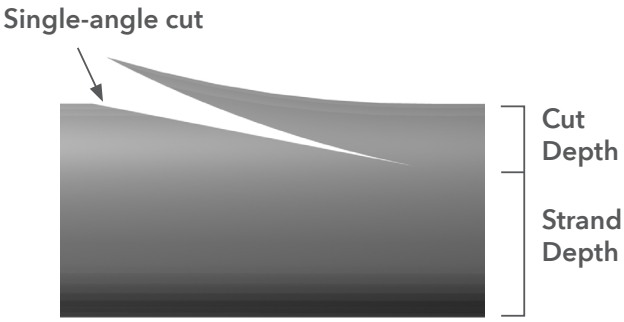
V-Loc™ device



Dual-angle cut

Lower-cut angle produces barbs with strong anchoring force and the shallow cut-depth preserves the integrity of the strand's strength[3,†]

Quill™* and Stratafix™* Spiral



Single-angle cut

Competitive barb sutures are manufactured with higher-cut angle. This produces barbs with lower barb holding force, and the deeper cut-depth may compromise strand's strength[3,5,†]

†Animal data may not correlate with human clinical outcomes.
‡V-Loc™ device launched in 2009.

Surgical needle and trocar guide[6]

This table is your guide. Surgical suture needles have minute variations in wire thickness, length, and curvature for optimal suture attachment to different USP sizes. Also, small variations in the internal trocar diameter exist between brands and manufactures. This table summarizes the testing results of our surgical suture needles and the ability to smoothly pass through our VersaOne™ access system trocars.[6]

Medtronic V-Loc™ needles			Medtronic VersaOne™ access system trocars†				
Type	Needle length (mm)	Curvature	5 mm	8 mm	11 mm	12 mm	15 mm
CV-15	17	3/8	Yes	Yes	Yes	Yes	Yes
CV-23	17	1/2	Yes‡	Yes	Yes	Yes	Yes
GS-11	37	1/2	No	No	No	Yes‡	Yes
GS-21	37	1/2	No	No	Yes‡	Yes	Yes
GS-22	27	1/2	No	Yes‡	Yes	Yes	Yes
GS-24	40	1/2	No	No	No	No	Yes
GS-25	48	1/2	No	No	No	No	Yes
GU-46	27	5/8	No	No	Yes	Yes	Yes
HOS-12	40	1/2	No	No	No	Yes	Yes
P-11	16	3/8	Yes	Yes	Yes	Yes	Yes
P-12	19	3/8	Yes	Yes	Yes	Yes	Yes
P-14	24	3/8	No	Yes	Yes	Yes	Yes
P-17	30	3/8	No	No	Yes	Yes	Yes
SC1	51	Straight	Yes	Yes	Yes	Yes	Yes
SC2	60	Straight	Yes	Yes	Yes	Yes	Yes
SK	23	Ski	Yes	Yes	Yes	Yes	Yes
V-20	26	1/2	No	Yes‡	Yes	Yes	Yes
V-30	30	1/2	No	No	Yes	Yes	Yes

† Our needles were tested with Medtronic VersaOne™ access system trocars.
‡ Results can vary; depending on the trocar brand and manufacturer due to variations in trocar's internal diameter.

V-Loc™ 90 absorbable wound closure device

Premium reverse cutting ▼	Suture Length (cm)	Suture Length (in)	Suture Color	Units per box	4-0	3-0	2-0	0
3/8 Circle 16 mm **P-11** 5 mm Trocar	30	12	Undyed	12	VLOCM1413 ❖			
	45	18	Undyed	12	VLOCM1423 ❖			
3/8 Circle 19 mm **P-12** 5 mm Trocar	15	6	Undyed	12	VLOCM0003 ❖	VLOCM0004 ❖	VLOCM0005	
	30	12	Undyed	12	VLOCM0013 ❖	VLOCM0014 ❖	VLOCM0015	
	45	18	Undyed	12	VLOCM0023 ❖	VLOCM0024 ❖	VLOCM0025	
	58	23	Undyed	12	VLOCM0033 ❖	VLOCM0034 ❖	VLOCM0035	
3/8 Circle 24 mm **P-14** 8 mm Trocar	23	9	Violet	12			VLOCM3245	
	30	12	Undyed	12	VLOCM0113 ❖	VLOCM0114 ❖	VLOCM0115	
	45	18	Undyed	12	VLOCM0123 ❖	VLOCM0124 ❖	VLOCM0125	
	58	23	Undyed	12	VLOCM0133 ❖	VLOCM0134 ❖	VLOCM0135	
3/8 Circle 30 mm **P-17** 11 mm Trocar	45	18	Undyed	12		VLOCM1824		
Taper point ⊙	**Suture Length (cm)**	**Suture Length (in)**	**Suture Color**	**Units per box**	**4-0**	**3-0**	**2-0**	**0**
3/8 Circle 17 mm **CV-15** 5 mm Trocar	15	6	Violet	12	VLOCM1203 ❖	VLOCM1204 ❖		

❖ Surgalloy™ Needle

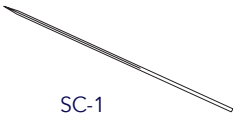
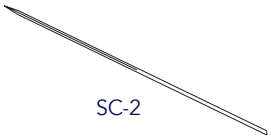
V-Loc™ 90 absorbable wound closure device

Taper point	Suture Length (cm)	Suture Length (in)	Suture Color	Units per box	4-0	3-0	2-0	0
1/2 Circle 17 mm **CV-23** 5 mm Trocar‡	15	6	Violet	12		VLOCM0804 ❖		
	15	6	Undyed	12		VLOCM1904 ❖		
	23	9	Violet	12	VLOCM0843 ❖	VLOCM0844 ❖		
	23	9	Undyed	12		VLOCM1944 ❖		
	30	12	Violet	12	VLOCM0813 ❖	VLOCM0814 ❖		
	45	18	Violet	12		VLOCM0824 ❖		
1/2 Circle 26 mm **V-20** 8 mm Trocar‡	15	6	Violet	12	VLOCM0603 ❖	VLOCM0604 ❖		
	15	6	Undyed	12		VLOCM2004 ❖		
	23	9	Violet	12		VLOCM0644 ❖		
	23	9	Undyed	12		VLOCM2044 ❖		
	30	12	Violet	12		VLOCM0614 ❖		
	45	18	Violet	12	VLOCM0623 ❖	VLOCM0624 ❖	VLOCM0625	
	58	23	Violet	12			VLOCM0635	
1/2 Circle 30 mm V-30 **11 mm Trocar**	23	9	Violet	12		VLOCM1544	VLOCM1545	
1/2 Circle 27 mm GS-22 **8 mm Trocar‡**	15	6	Violet	12			VLOCM2105	VLOCM2106Ω
	15	6	Undyed	12			VLOCM2205	
	23	9	Violet	12			VLOCM2145	VLOCM2146Ω
	23	9	Undyed	12			VLOCM2245	
	30	12	Violet	12			VLOCM2115	VLOCM2116Ω
	45	18	Violet	12				VLOCM2126Ω
	55	22	Violet	12				VLOCM2136Ω

❖ Surgalloy™ Needle
‡ Results can vary; depending on the trocar brand and manufacturer due to variations in trocar's internal diameter.
Ω New V-Loc™ device code.

V-Loc™ 90 absorbable wound closure device

Taper point	Suture Length (cm)	Suture Length (in)	Suture Color	Units per box	4-0	3-0	2-0	0
1/2 Circle 37 mm GS-21 11 mm Trocar‡	15	6	Violet	12			VLOCM0305	VLOCM0306Ω
	45	18	Violet	12			VLOCM0325	
	23	9	Violet	12		VLOCM0344	VLOCM0345	VLOCM0346Ω
	30	12	Violet	12			VLOCM0315	VLOCM0316Ω
	45	18	Violet	12		VLOCM0324	VLOCM0325	VLOCM0326Ω
	45	18	Undyed	12			VLOCM3225	VLOCM3326Ω
	55	22	Violet	12				VLOCM0336Ω
	55	22	Undyed	12				VLOCM3336Ω
	58	23	Violet	12			VLOCM0335	
1/2 Circle 40 mm GS-24 15 mm Trocar	45	18	Violet	12				VLOCM4726Ω
1/2 Circle 48 mm GS-25 15 mm Trocar	55	22	Violet	12				VLOCM0436Ω
5/8 Circle 27 mm U-46 11 mm Trocar	15	6	Violet	12		VLOCM1704		
	23	9	Violet	12		VLOCM1744		

Straight cutting	Suture Length (cm)	Suture Length (in)	Suture Color	Units per box	4-0	3-0	2-0	0
Straight 51 mm  SC-1	45	18	Undyed	12		VLOCM1624		
Straight 60 mm  SC-2	45	18	Undyed	12	VLOCM0223	VLOCM0224		

‡ Results can vary; depending on the trocar brand and manufacturer due to variations in trocar's internal diameter.
Ω New V-Loc™ device code.

V-Loc™ 180 absorbable wound closure device

Premium reverse cutting	Suture Length (cm)	Suture Length (in)	Suture Color	Units per box	4-0	3-0	2-0	0
3/8 Circle 16 mm P-11 5 mm Trocar	30	12	Undyed	12	VLOCL1413 ❖			
3/8 Circle 19 mm P-12 5 mm Trocar	15	6	Undyed	12	VLOCL0003 ❖	VLOCL0004		
	30	12	Undyed	12	VLOCL0013 ❖	VLOCL0014	VLOCL0015	
	45	18	Undyed	12	VLOCL0023 ❖	VLOCL0024	VLOCL0025	
	58	23	Undyed	12	VLOCL0033 ❖			
	60	24	Undyed	12		VLOCL0034		
3/8 Circle 24 mm P-14 8 mm Trocar	30	12	Undyed	12		VLOCL0114	VLOCL0115	
	30	12	Green	12				VLOCL3216
	45	18	Undyed	12	VLOCL0123 ❖	VLOCL0124	VLOCL0125	
	58	23	Undyed	12	VLOCL0133 ❖			
	60	24	Undyed	12		VLOCL0134	VLOCL0135	

Reverse cutting	Suture Length (cm)	Suture Length (in)	Suture Color	Units per box	4-0	3-0	2-0	0
1/2 Circle 37 mm GS-11 12 mm Trocar‡	30	12	Undyed	12			VLOCL2815	
	45	18	Undyed	12				VLOCL2826
	45	18	Green	12			VLOCL2825	
	60	24	Green	12				VLOCL2836
1/2 Circle 40 mm HOS-12 12 mm Trocar	60	24	Green	12				VLOCL4636

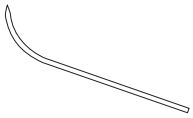
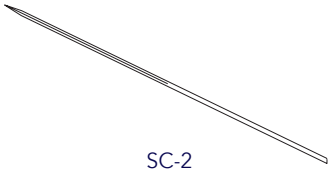
❖ Surgalloy™ Needle
‡ Results can vary; depending on the trocar brand and manufacturer due to variations in trocar's internal diameter.

V-Loc™ 180 absorbable wound closure device

Taper point	Suture Length (cm)	Suture Length (in)	Suture Color	Units per box	4-0	3-0	2-0	0
1/2 Circle 17 mm CV-23 5 mm Trocar‡	15	6	Green	12	VLOCL0803 ❖	VLOCL0804		
	15	6	Undyed	12		VLOCL1904 ❖		
	23	9	Green	12		VLOCL0844 ❖		
	30	12	Green	12	VLOCL0813 ❖	VLOCL0814		
	45	18	Green	12		VLOCL0824		
1/2 Circle 26 mm V-20 8 mm Trocar‡	15	6	Green	12	VLOCL0603 ❖	VLOCL0604 ❖		
	23	9	Green	12	VLOCL0643 ❖	VLOCL0644 ❖		
	30	12	Green	12	VLOCL0613 ❖	VLOCL0614 ❖	VLOCL0615	
	45	18	Green	12		VLOCL0624 ❖	VLOCL0625	
	60	24	Green	12			VLOCL0635	
1/2 Circle 30 mm V-30 11 mm Trocar	23	9	Green	12		VLOCL1544	VLOCL1545	
1/2 Circle 27 mm GS-22 8 mm Trocar‡	15	6	Green	12			VLOCL2105	
	23	9	Green	12			VLOCL2145	VLOCL2246
	30	12	Green	12				VLOCL2216
1/2 Circle 37 mm GS-21 11 mm Trocar‡	15	6	Green	12			VLOCL0305	VLOCL0306
	23	9	Green	12		VLOCL0344	VLOCL0345	VLOCL0346
	30	12	Green	12			VLOCL0315	VLOCL0316
	45	18	Green	12		VLOCL0324	VLOCL0325	VLOCL0326
	60	24	Green	12			VLOCL0335	VLOCL0336
1/2 Circle 48 mm GS-25 15 mm Trocar	30	12	Green	12				VLOCL0416
	45	18	Green	12				VLOCL0426
	60	24	Green	12				VLOCL0436

❖ Surgalloy™ Needle
‡ Results can vary; depending on the trocar brand and manufacturer due to variations in trocar's internal diameter.

V-Loc™ 180 absorbable wound closure device

Taper point	Suture			Units per box	3-0	2-0	0
	Length (cm)	Length (in)	Color				
ski **23 mm**  SK	23	9	Green	12	VLOCL2744		
Straight cutting	**Suture**			**Units per box**	**3-0**	**2-0**	**0**
	Length (cm)	**Length (in)**	**Color**				
Straight **60 mm**  SC-2	45	18	Clear	12	VLOCL0224		

V-Loc™ PBT nonabsorbable wound closure device

Taper point ⊙	Suture Length (cm)	Suture Length (in)	Suture Color	Units per box	4-0	3-0	2-0	0	1
1/2 Circle 17 mm CV-23 **5 mm Trocar‡**	15	6	Blue	12		VLOCN0804			
	30	12	Blue	12		VLOCN0814 ❖			
1/2 Circle 26 mm V-20 **8 mm Trocar‡**	15	6	Blue	12		VLOCN0604 ❖	VLOCN0605		
	23	9	Blue	12		VLOCN0644 ❖			
	30	12	Blue	12		VLOCN0614 ❖	VLOCN0615		
1/2 Circle 27 mm GS-22 **8 mm Trocar‡**	15	6	Blue	12			VLOCN2105	VLOCN2106	
	23	9	Blue	12			VLOCN2145	VLOCN2146	VLOCN2147
	30	12	Blue	12					VLOCN2117
	45	18	Blue	12			VLOCN1125	VLOCN1126	
1/2 Circle 37 mm GS-21 **11 mm Trocar‡**	15	6	Blue	12			VLOCN0305	VLOCN0306	
	23	9	Blue	12			VLOCN0345	VLOCN0346	VLOCN0347
	30	12	Blue	12					VLOCN0317
	45	18	Blue	12			VLOCN0325	VLOCN0326	VLOCN0327
1/2 Circle 48 mm GS-25 **15 mm Trocar**	60	24	Blue	12					VLOCN0437

❖ Surgalloy™ Needle
‡ Results can vary; depending on the trocar brand and manufacturer due to variations in trocar's internal diameter.

V-Loc™ 180 absorbable reload for Endo Stitch™ suturing device

	Length (cm)	Length (in)	Color	Units per box	3-0	2-0	0	1
	10	4	Green	6			VLOCA004L	
	15	6	Green	6			VLOCA006L	
	20	8	Green	6			VLOCA008L	
	10	4	Green	6		VLOCA204L		
	15	6	Green	6		VLOCA206L		
	20	8	Green	6		VLOCA208L		
	10	4	Green	6	VLOCA304L			
	15	6	Green	6	VLOCA306L			
	20	8	Green	6	VLOCA308L			

Endo Stitch™ suturing device reorder code

Reorder Code	Description
173016	Endo Stitch™ 10 mm Suturing Device

V-Loc™ PBT non-absorbable reload

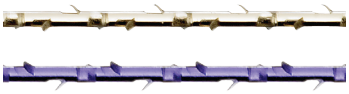
Endo Stitch™ suturing device

	Length (cm)	Length (in)	Color	Units per box	3-0	2-0	0	1
	10	4	Blue	6			VLOCN004L	
	15	6	Blue	6			VLOCN006L	
	20	8	Blue	6			VLOCN008L	
	10	4	Blue	6		VLOCN204L		
	15	6	Blue	6		VLOCN206L		
	20	8	Blue	6		VLOCN208L		
	10	4	Blue	6	VLOCN304L			
	15	6	Blue	6	VLOCN306L			
	20	8	Blue	6	VLOCN308L			

Endo Stitch™ suturing device reorder code

Reorder Code	Description
173016	Endo Stitch™ 10 mm Suturing Device

V-Loc™ wound closure device

	V-Loc™ 90 device[7]	V-Loc™ 180 device[8]	V-Loc™ PBT nonabsorbable device[9]
Tensile Strength	14 days	21 days	Permanent
Absorption Profile	90-110 days	180 days	Permanent
Procedural Applications	Soft tissue approximation where support is required consistent with the absorption profile	Soft tissue approximation where support is required consistent with the absorption profile	Soft tissue approximation
Color	Undyed, violet 	Undyed, green	Blue
Composition	Glycolide, dioxanone and trimethylene carbonate	Copolymer of glycolic acid and trimethylene carbonate	Polybutester
Indications	V-Loc™ 90 and V-Loc™ 180 absorbable wound closure devices are indicated for soft tissue approximation where use of an absorbable suture is appropriate.		V-Loc™ PBT nonabsorbable wound closure devices are indicated for soft tissue approximation.

For more information or to set up a product demonstration, contact your local Medtronic wound closure specialist or call customer service at **800-722-8772.**

Visit us at medtronic.com/v-loc

V-loc™ wound closure device is not intended to be used by tying surgical knots and should not be used for interrupted suture patterns. As with all surgical sutures, adverse effects include but are not limited to wound dehiscence, and failure to provide adequate wound support in sites where expansion, stretching, or distention occur. Please refer to IFU for complete contraindication and risk information.

References

1. Alessandri F, Remorgida V, Venturini PL, Ferrero S, et al. Unidirectional barbed suture versus continuous suture with intracorporeal knots in laparoscopic myomectomy: a randomized study. *J Minim Invasive Gynecol*. 2010 Nov-Dec;17(6):725-9.
2. Rubin JP, Hunstad JP, Polynice A, Gusenoff JA, et al. A multicenter randomized controlled trial comparing absorbable barbed sutures versus conventional absorbable sutures for dermal closure in open surgical procedures. *Aesthet Surg J*. 2014;34(2):272-283.
3. Zaruby J, Gingras K, Taylor J, Maul D. An in vivo comparison of barbed suture devices and conventional monofilament sutures for cosmetic skin closure: biomechanical wound strength and histology. *Aesth Surg J*. 2011;31(2):232-240.
4. Gingras K, Zaruby J, Maul D. Comparison of V-Loc™ 180 wound closure device and Stratafix™* Spiral knotless tissue-closure device for intradermal closure in a porcine in vivo model: evaluation of biomechanical wound strength. *J Biomed Mater Res Part B Appl Biomater.* 2012;100(4):1053-1058.
5. Based on internal test report# RE00186732. Medtronic vs Ethicon barbed suture benchtop test evaluation. January 2019.
6. Based on internal test report #RE00319320. V-Loc™ Needle compatibility with VersaOne™ Trocars, April 2021.
7. V-Loc™ 90 device [instructions for use]. Medtronic.
8. V-Loc™ 180 device [instructions for use]. Medtronic.
9. V-Loc™ PBT non-absorbable device [instructions for use]. Medtronic.

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