

THREAD SIZES

THREAD LENGTH

NEEDLE POINT

NEEDLE-TO-THREAD
RATIO

CATALOGUE
NUMBERS

PROCEDURES

GORE-TEX® Suture

ORDERING INFORMATION



Together, improving life



CV-8 thread size | Approximate USP size 7-0

Double-armed needles

Needle type	Double-armed needles	Needle code	Thread length	Catalogue number	Ethicon reference	Medtronic reference
 Taper point 3/8 circle		TTc-7	24"–61 cm	8K10	BV130-5	CV-351, MV-135-5
		TTc-9	18"–46 cm	8J02	BV-1, BV175-8	CV-1, CVF-1, MV-175-8
			24"–61 cm	8K02		
			30"–76 cm	8M02		
		TTc-13	30"–76 cm	8M04	C-1	CV-11, CVF-11
 Piercing point 3/8 circle Multifaceted tip for tough tissue, tapered body		PT-9	24"–61 cm	8K08	CC	KV-1
			30"–76 cm	8M08		
		PT-13	30"–76 cm	8M06	CC-1	KV-11

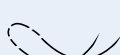
CV-7 thread size | Approximate USP size 6-0

Double-armed needles

Needle type	Double-armed needles	Needle code	Thread length	Catalogue number	Ethicon reference	Medtronic reference
Taper point 3/8 circle		TTc-9	18"–46 cm	7J02	BV-1, BV175-8	CV-1, CVF-1, MV-175-8
			24"–61 cm	7K02		
			30"–76 cm	7M02		
		TTc-12	30"–76 cm	7M12	BV	CV-11, CVF
		TTc-13	24"–61 cm	7K06	C-1	CV-11, CVF-11
			30"–76 cm	7M06		
Taper point 1/2 circle		THc-13	30"–76 cm	7M10	RB-2	CV-22, CVF-22
Piercing point 3/8 circle Multifaceted tip for tough tissue, tapered body		PT-9	24"–61 cm	7K04	CC	KV-1
			30"–76 cm	7M04		
		PT-13	30"–76 cm	7M08	CC-1	KV-11

CV-6 thread size | Approximate USP size 5-0

Double-armed needles

Needle type	Double-armed needles	Needle code	Thread length	Catalogue number	Ethicon reference	Medtronic reference
Taper point 3/8 circle		TTc-9	18"–46 cm	6J02	BV-1, BV175-8	CV-1, CVF-1, MV-175-8
			24"–61 cm	6K02		
			30"–76 cm	6M02		
		TTc-12	30"–76 cm	6M10	BV	CV-11 CVF
		TTc-13	30"–76 cm	6M04	C-1	CV-11, CVF-11
			36"–91 cm	6N04		
Taper point 1/2 circle		THc-9	30"–76 cm	6M24	N/A	CV-20
		THc-13	30"–76 cm	6M12	RB-2	CV-22, CVF-22
		TH-18	36"–91 cm	6N16	RB-1	CV-23, CVF-23
Piercing point 3/8 circle Multifaceted tip for tough tissue, tapered body		PT-9	24"–61 cm	6K06	CC	KV-1
			30"–76 cm	6M06		
		PT-13	30"–76 cm	6M08	CC-1	KV-11
Piercing point 1/2 circle		PH-13	30"–76 cm	6M14	N/A	N/A

Bold indicates 1:1 needle-to-thread ratio to minimize suture hole bleeding.

CV-5 thread size | Approximate USP size 4-0

Double-armed needles

Needle type	Double-armed needles	Needle code	Thread length	Catalogue number	Ethicon reference	Medtronic reference
Taper point 3/8 circle		TTc-13	24"–61 cm	5K02	C-1	CV-11, CVF-11
			30"–76 cm	5M02		CV-11, CVF-11, MV-175-8
			36"–91 cm	5N02		
		TT-17	36"–91 cm	5N06	BB	CV-15, CVF-15
Taper point 1/2 circle		THc-13	24"–61 cm	5K12	RB-2	CV-22, CVF-22
			30"–76 cm	5M12		
			36"–91 cm	5N12		
		TH-18	36"–91 cm	5N04	RB-1	CV-23, CVF-23
Piercing point 3/8 circle Multifaceted tip for tough tissue, tapered body		PT-13	36"–91 cm	5N08	CC-1	KV-11
		PT-17	36"–91 cm	5N10	V-4	KV-15
Piercing point 1/2 circle		PH-13	30"–76 cm	5M16	N/A	N/A
		PH-17	36"–91 cm	5N14	V-5	KV-5

Bold indicates 1:1 needle-to-thread ratio to minimize suture hole bleeding.

CV-4 thread size | Approximate USP size 3-0

Double-armed needles

Needle type	Double-armed needles	Needle code	Thread length	Catalogue number	Ethicon reference	Medtronic reference
Taper point 3/8 circle		TT-17	36"–91 cm	4N04	BB130-56	CV-15, CVF-15
			36"–91 cm	4N02	RB-1	CV-23, CVF-23
Taper point 1/2 circle		TH-18	48"–122 cm	4U02		
			36"–91 cm	4N06	SH	V-20
		TH-26	48"–122 cm	4U06		
			36"–91 cm	4N12	MH	V-26
Piercing point 3/8 circle Multifaceted tip for tough tissue, tapered body		PT-17	36"–91 cm	4N10	V-4	KV-15
Piercing point 1/2 circle		PH-17	36"–91 cm	4N08	V-5	KV-5
		PH-24	36"–91 cm	4N16	V-7	KV-7

CV-3 thread size | Approximate USP size 2-0

Double-armed needles

Needle type	Double-armed needles	Needle code	Thread length	Catalogue number	Ethicon reference	Medtronic reference
Taper point 3/8 circle		TT-17	36"–91 cm	3N02	BB130-5	CV-15, CVF-15
		TH-18	36"–91 cm	3N04	RB1	CV-23, CVF-23
		TH-26	36"–91 cm	3N08	SH	V-20
			48"–122 cm	3U08		
		TH-35	36"–91 cm	3U06	MH	V-26
			48"–122 cm	3N06		
Piercing point 3/8 circle Multifaceted tip for tough tissue, tapered body		PT-17	36"–91 cm	3N14	V-4	KV-15
Piercing point 1/2 circle		PH-17	36"–91 cm	3N12	V-5	KV-5
		PH-24	36"–91 cm	3N10	V-7	KV-7
			48"–122 cm	3U10		
		PH-35	48"–122 cm	3U20	V-34	KV-34

Bold indicates 1:1 needle-to-thread ratio to minimize suture hole bleeding.

CV-2 thread size | Approximate USP size 0

Single-armed needles

Needle type	Single-armed needles	Needle code	Thread length	Catalogue number	Ethicon reference	Medtronic reference
Taper point 1/2 circle		TH-26	36"–91 cm	2N01	SH	V-20
		THX-22	36"–91 cm	2N03	M07	GS-23
		THX-25	36"–91 cm	2N13	M06	GS-22
		THX-26	36"–91 cm	2N05	CT-2	GS-22
		THX-36	36"–91 cm	2N07	CT-1	GS-21
Taper point 5/8 circle Smooth, even point for easily penetrated tissues, tapered body		TFX-25	36"–91 cm	2N19	UR-6	GU-46
Taper point straight		TS-50	36"–91 cm	2N23	ST-1	ST-1
Straight cutting		CS-65	30"–76 cm	2M25	KS	N/A

Bold indicates 1:1 needle-to-thread ratio to minimize suture hole bleeding.

CV-2 thread size | Approximate USP size 0

Double-armed needles

Needle type	Double-armed needles	Needle code	Thread length	Catalogue number	Ethicon reference	Medtronic reference
Taper point 1/2 circle		TH-26	36"–91 cm	2N02	SH	V-20
		THX-26	36"–91 cm	2N06	CT-2	GS-22
		THX-36	36"–91 cm	2N08	CT-1	GS-21
Piercing point 1/2 circle Cutting edges for tough tissue, triangular body		PH-24	36"–91 cm	2N10	V-7	KV-7

Bold indicates 1:1 needle-to-thread ratio to minimize suture hole bleeding.

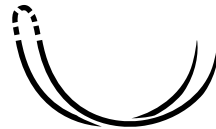
CV-0 thread size | Approximate USP size 1

Single-armed needles

Needle type	Single-armed needles	Needle code	Thread length	Catalogue number	Ethicon reference	Medtronic reference
 Taper point 1/2 circle		TH-50	48"–122 cm	OU01	CTX	GS-25
		THX-25	36"–91 cm	ON13	M06	GS-22
		THX-26	36"–91 cm	ON05	CT-2	GS-22
		THX-36	36"–91 cm	ON07	CT-1	GS-21
 Taper point 5/8 circle		TFX-25	36"–91 cm	ON09	UR-6	GU-46
 Taper point 1/2 curve (ski) Smooth, even point for easily penetrated tissues, tapered body		TLX-25	48"–122 cm	OU03	EN-S	SK

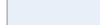
CV-0 thread size | Approximate USP size 1

Double-armed needles

Needle type	Double-armed needles	Needle code	Thread length	Catalogue number	Ethicon reference	Medtronic reference
 Taper point 1/2 circle		THX-26	48"–122 cm	OU06	CT-2	GS-22
		THX-36	36"–91 cm	ON08	CT-1	GS-21

18"-46 cm thread lengths

Double-armed needles

				Thread size:	CV-8	CV-7	CV-6		
				Approximate USP size:	7-0	6-0	5-0		
Needle type	Double-armed needles	Needle code	Thread length	Catalogue number			Ethicon reference	Medtronic reference	
 Taper point 3/8 circle		TTc-9	18"—46 cm	8J02	7J02	6J02	BV-1, BV175-8	CV-1, CVF-1, MV-175-8	

Bold indicates 1:1 needle-to-thread ratio to minimize suture hole bleeding.

24"–61 cm thread lengths

Double-armed needles

				Thread size:			
				CV-8	CV-7	CV-6	CV-5
Approximate USP size:				7-0	6-0	5-0	4-0
Needle type	Double-armed needles	Needle code	Thread length	Catalogue number			
⦿ Taper point 3/8 circle		TTc-7	24"–61 cm	8K10			
		TTc-9	24"–61 cm	8K02	7K02	6K02	
		TTc-13	24"–61 cm		7K06		5K02
		THc-13	24"–61 cm				5K12
⬆ Piercing point 3/8 circle Multifaceted tip for tough tissue, tapered body		PT-9	24"–61 cm	8K08	7K04	6K06	

Ethicon reference	Medtronic reference
BV130-5	CV-351, MV-135-5
BV-1, BV175-8	CV-1, CVF-1, MV-175-8
C-1	CV-11, CVF-11
RB-2	CV-22, CVF-22
CC	KV-1

Bold indicates 1:1 needle-to-thread ratio to minimize suture hole bleeding.

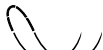
30"–76 cm thread lengths

Single-armed needles

Thread size: CV-2						
Approximate USP size: 0						
Needle type	Single-armed needles	Needle code	Thread length	Catalogue number	Ethicon reference	Medtronic reference
▲ Straight cutting Cutting edges for tough tissue, triangular body		CS-65	30"–76 cm	2M25	KS	N/A

30"–76 cm thread lengths

Double-armed needles

				Thread size:	CV-8	CV-7	CV-6	CV-5		
				Approximate USP size:	7-0	6-0	5-0	4-0		
Needle type	Double-armed needles	Needle code	Thread length	Catalogue number				Ethicon reference	Medtronic reference	
 Taper point 3/8 circle		TTc-9	30"—76 cm	8M02	7M02	6M02		BV-1, BV175-8	CV-1, CVF-1, MV-175-8	
		TTc-12	30"—76 cm		7M12	6M10		BV	CV-11, CVF	
		TTc-13	30"—76 cm	8M04	7M06	6M04	5M02	C-1	CV-11, CVF-11	
 Taper point 1/2 circle		THc-9	30"—76 cm			6M24		N/A	CV-20	
		THc-13	30"—76 cm		7M10	6M12	5M12	RB-2	CV-22, CVF-22	
 Piercing point 3/8 circle Multifaceted tip for tough tissue, tapered body		PT-9	30"—76 cm	8M08	7M04	6M06		CC	KV-1	
		PT-13	30"—76 cm	8M06	7M08	6M08		CC-1	KV-11	
 Piercing point 1/2 circle		PH-13	30"—76 cm			6M14	5M16	N/A	N/A	

Bold indicates 1:1 needle-to-thread ratio to minimize suture hole bleeding.

36"–91 cm thread lengths

Single-armed needles

Thread size: CV-2						CV-0	
Approximate USP size: 0						1	
Needle type	Single-armed needles	Needle code	Thread length	Catalogue number		Ethicon reference	Medtronic reference
 Taper point 1/2 circle		TH-26	36"–91 cm	2N01		SH	V-20
		THX-22	36"–91 cm	2N03		M07	GS-23
		THX-25	36"–91 cm	2N13	0N13	M06	GS-22
		THX-26	36"–91 cm	2N05	0N05	CT-2	GS-22
		THX-36	36"–91 cm	2N07	0N07	CT-1	GS-21
 Taper point 5/8 circle		TFX-25	36"–91 cm	2N19	0N09	UR-6	GU-46
 Taper point straight		TS-50	36"–91 cm	2N23		ST-1	ST-1

Bold indicates 1:1 needle-to-thread ratio to minimize suture hole bleeding.

36"–91 cm thread lengths

Double-armed needles

				Thread size:							
				Approximate USP size:							
				CV-6	CV-5	CV-4	CV-3	CV-2	CV-0		
				5-0	4-0	3-0	2-0	0	1		
Needle type	Double-armed needles	Needle code	Thread length	Catalogue number						Ethicon reference	Medtronic reference
Taper point 3/8 circle		TTc-13	36"–91 cm	6N04	5N02					C-1	CV-11, CVF-11
		TT-17	36"–91 cm		5N06	4N04	3N02			BB	CV-15, CVF-15
Taper point 1/2 circle		THc-13	36"–91 cm		5N12					RB-2	CV-22, CVF-22
		TH-18	36"–91 cm	6N16	5N04	4N02	3N04			RB-1	CV-23, CVF-23
		TH-26	36"–91 cm		5N20	4N06	3N08	2N02		SH	V-20
		TH-35	36"–91 cm			4N12	3N06			MH	V-26
		THX-26	36"–91 cm					2N06		CT-2	GS-22
		THX-36	36"–91 cm					2N08	0N08	CT-1	GS-21
Taper point straight		PT-13	36"–91 cm		5N08					CC-1	KV-11
		PT-17	36"–91 cm		5N10	4N10	3N14			V-4	KV-15
		PH-17	36"–91 cm		5N14	4N08	3N12			V-5	KV-5
		PH-24	36"–91 cm			4N16	3N10	2N10		V-7	KV-7

48"–122 cm thread lengths

Single-armed needles

Thread size: CV-0						
Approximate USP size: 1						
Needle type	Single-armed needles	Needle code	Thread length	Catalogue number	Ethicon reference	Medtronic reference
 Taper point 1/2 circle		TH-50	48"–122 cm	0U01	CTX	GS-25
 Taper point 1/2 curve (ski) Smooth, even point for easily penetrated tissues, tapered body		TLX-25	48"–122 cm	0U03	EN-S	SK

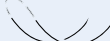
48"–122 cm thread lengths

Double-armed needles

				Thread size:					
				CV-4	CV-3	CV-2	CV-0		
				Approximate USP size:	3-0	2-0	0	1	
Needle type	Double-armed needles	Needle code	Thread length	Catalogue number				Ethicon reference	Medtronic reference
Taper point 1/2 circle		TH-18	48"–122 cm	4U02				RB-1	CV-23, CVF-23
		TH-26	48"–122 cm	4U06	3U08			SH	V-20
		TH-35	48"–122 cm		3U06			MH	V-26
		THX-26	48"–122 cm				0U06	CT-2	GS-22
Piercing point 1/22 circle		PH-24	48"–122 cm		3U10			V-7	KV-7
Multi-needle		PH-35	48"–122 cm		3U20			V-34	KV-34

⦿ Taper point 3/8 circle

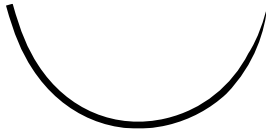
Double-armed needles

			Thread size:							
			Approximate USP size:							
			CV-8	CV-7	CV-6	CV-5	CV-4	CV-3		
			7-0	6-0	5-0	4-0	3-0	2-0		
Double-armed needles	Needle code	Thread length	Catalogue number						Ethicon reference	Medtronic reference
	TTc-7	24"–61 cm	8K10						BV130-5	CV-351, MV-135-5
	TTc-9	18"–46 cm	8J02	7J02	6J02				BV-1, BV175-8	CV-1, CVF-1, MV-175-8
		24"–61 cm	8K02	7K02	6K02					
		30"–76 cm	8M02	7M02	6M02					
	TTc-12	30"–76 cm		7M12	6M10				BV	CV-1, CVF
	TTc-13	24"–61 cm		7K06		5K02			C-1	CV-11, CVF-11
		30"–76 cm	8M04	7M06	6M04	5M02				
		36"–91 cm			6N04	5N02				
	TT-17	36"–91 cm				5N06	4N04	3N02	BB	CV-15, CVF-15

Bold indicates 1:1 needle-to-thread ratio to minimize suture hole bleeding.

⦿ Taper point 1/2 circle

Single-armed needles

		Thread size:		CV-2	CV-0
		Approximate USP size:		0	1
Single-armed needles	Needle code	Thread length	Catalogue Number		
	TH-26	36"–91 cm	2N01		
	TH-50	48"–122 cm		OU01	
	THX-22	36"–91 cm	2N03		
	THX-25	36"–91 cm	2N13	ON13	
	THX-26	36"–91 cm	2N05	ON05	
	THX-36	36"–91 cm	2N07	ON07	

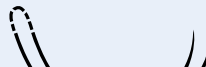
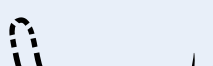
Ethicon reference	Medtronic reference
SH	V-20
CTX	GS-25
M07	GS-23
M06	GS-22
CT-2	GS-22
CT-1	GS-21

Bold indicates 1:1 needle-to-thread ratio to minimize suture hole bleeding.

⦿

Taper point 1/2 circle

Double-armed needles

			Thread size:		CV-7	CV-6	CV-5	CV-4	CV-3	CV-2	CV-0		
			Approximate USP size:		6-0	5-0	4-0	3-0	2-0	0	1		
Double-armed needles	Needle code	Thread length	Catalogue number								Ethicon reference	Medtronic reference	
	THc-9	30"–76 cm		6M24								N/A	CV-20
	THc-13	24"–61 cm			5K12								
		30"–76 cm	7M10	6M12	5M12								
		36"–91 cm			5N12								
	TH-18	36"–91 cm		6N16	5N04	4N02	3N04					RB-1	CV-23, CVF-23
		48"–122 cm				4U02							
	TH-26	36"–91 cm			5N20	4N06	3N08	2N02				SH	V-20
		48"–122 cm				4U06	3U08						
	TH-35	36"–91 cm				4N12	3N06					MH	V-26
		48"–122 cm					3U06						
	THX-26	36"–91 cm							2N06			CT-2	GS-22
		48"–122 cm									0U06		
	THX-36	36"–91 cm							2N08	0N08		CT-1	GS-21

Bold indicates 1:1 needle-to-thread ratio to minimize suture hole bleeding.

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Taper point 5/8 circle

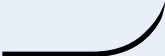
Single-armed needles

			Thread size:	CV-2	CV-0		
			Approximate USP size:	0	1		
Single-armed needles	Needle code	Thread length	Catalogue number			Ethicon reference	Medtronic reference
	TFX-25	36"–91 cm	2N19	0N09		UR-6	GU-46

⦿

Taper point 1/2 curve

Single-armed needles

			Thread size:	CV-0		
			Approximate USP size:	1		
Single-armed needles	Needle code	Thread length	Catalogue number	Ethicon reference	Medtronic reference	
	TLX-25	48"–122 cm	0U03	EN-S	SK	

⦿

Taper point straight

Single-armed needles

Thread size:				CV-2	
Approximate USP size:				0	
Single-armed needles	Needle code	Thread length	Catalogue number	Ethicon reference	Medtronic reference
	TS-50	36"–91 cm	2N23	ST-1	ST-1

▲ Piercing point 3/8 circle

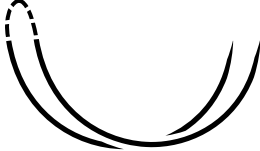
Double-armed needles

			Thread size:							
			CV-8	CV-7	CV-6	CV-5	CV-4	CV-3		
			7-0	6-0	5-0	4-0	3-0	2-0		
Double-armed needles	Needle code	Thread length	Catalogue number						Ethicon reference	Medtronic reference
	PT-9	24"–61 cm	8K08	7K04	6K06				CC	KV-1
		30"–76 cm	8M08	7M04	6M06					
	PT-13	30"–76 cm	8M06	7M08	6M08				CC-1	KV-11
		36"–91 cm				5N08				
	PT-17	36"–91 cm				5N10	4N10	3N14	V-4	KV-15

Bold indicates 1:1 needle-to-thread ratio to minimize suture hole bleeding.

▲ Piercing point 1/2 circle

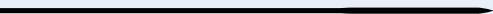
Double-armed needles

		Thread size:		CV-6	CV-5	CV-4	CV-3	CV-2		
		Approximate USP size:		5-0	4-0	3-0	2-0	0		
Double-armed needles	Needle code	Thread length	Catalogue number					Ethicon reference		Medtronic reference
	PH-13	30"–76 cm	6M14	5M16				N/A		N/A
	PH-17	36"–91 cm		5N14	4N08	3N12		V-5		KV-5
	PH-24	36"–91 cm			4N16	3N10	2N10	V-7		KV-7
		48"–122 cm				3U10				
	PH-35	48"–122 cm					3U20	V-34		KV-34

Bold indicates 1:1 needle-to-thread ratio to minimize suture hole bleeding.

▲ **Straight cutting**

Single-armed needles

Thread size:				CV-2	
Approximate USP size:				0	
Single-armed needles	Needle code	Thread length	Catalogue number	Ethicon reference	Medtronic reference
	CS-65	30"–76 cm	2M25	KS	N/A

Thread sizes	Thread length			Needle point		Needle-to-thread ratio	Catalogue numbers		Procedures
1:1	1.2:1	1.3:1	1.4:1	1.5:1	1.6:1	1.7:1	1.8:1	1.9:1	2.2:1

All products and needle-to-thread ratios

Thread size:	CV-8	CV-7	CV-6	CV-5	CV-4	CV-3	CV-2	CV-0
Approximate USP size:	7-0	6-0	5-0	4-0	3-0	2-0	0	1
	TTc-7 (1.6:1)	TTc-9 (1.4:1)	TTc-9 (1:1)	TTc-13 (1:1)	TT-17 (1.2:1)	TT-17 (1:1)	TFX-25 (1.6:1)	TFX-25 (1.6:1)
	TTc-9 (1.9:1)	TTc-12 (1.4:1)	TTc-12 (1:1)	TT-17 (1.2:1)	TH-18 (1.2:1)	TH-18 (1:1)	TLX-25 (1.9:1)	TLX-25 (1.6:1)
	TTc-13 (2.2:1)	TTc-13 (1.6:1)	TTc-13 (1.4:1)	THc-13 (1:1)	TH-22 (1.3:1)	TH-26 (1.2:1)	TH-26 (1:1)	TH-50 (1.6:1)
	PT-9 (1.9:1)	THc-13 (1.6:1)	THc-9 (1:1)	TH-18 (1.2:1)	TH-26 (1.6:1)	TH-35 (1.2:1)	THX-22 (1.9:1)	THX-25 (1.6:1)
	PT-13 (2.2:1)	PT-9 (1.4:1)	THc-13 (1.4:1)	TH-22 (1.7:1)	TH-35 (1.6:1)	PT-17 (1:1)	THX-25 (1.9:1)	THX-26 (1.3:1)
		PT-13 (1.6:1)	TH-18 (1.6:1)	TH-26 (1.7:1)	PT-17 (1.2:1)	PH-17 (1:1)	THX-26 (1.6:1)	THX-36 (1.3:1)
			PT-9 (1:1)	PT-13 (1:1)	PH-17 (1.2:1)	PH-24 (1.2:1)	THX-36 (1.6:1)	
			PT-13 (1.4:1)	PT-17 (1.2:1)	PH-24 (1.6:1)	PH-30 (1.3:1)	PH-24 (1:1)	
			PH-13 (1.4:1)	PH-13 (1:1)	PH-35 (1.8:1)	PH-35 (1.5:1)	PS-4 (1.9:1)	
				PH-17 (1.2:1)			CS-65 (1.2:1)	
							TS-50 (1.2:1)	

Indicates products with 1:1 needle-to-thread ratio

THREAD SIZES	THREAD LENGTH	NEEDLE POINT	NEEDLE-TO-THREAD RATIO	CATALOGUE NUMBERS	PROCEDURES				
1:1	1.2:1	1.3:1	1.4:1	1.5:1	1.6:1	1.7:1	1.8:1	1.9:1	2.2:1

1:1 Needle-to-thread ratio

Thread size:	CV-8	CV-7	CV-6	CV-5	CV-4	CV-3	CV-2	CV-0
Approximate USP size:	7-0	6-0	5-0	4-0	3-0	2-0	0	1
			TTc-9 (1:1)	TTc-13 (1:1)			TT-17 (1:1)	TH-26 (1:1)
			TTc-12 (1:1)	THc-13 (1:1)			TH-18 (1:1)	PH-24 (1:1)
			THc-9 (1:1)	PT-13 (1:1)			PT-17 (1:1)	
			PT-9 (1:1)	PH-13 (1:1)			PH-17 (1:1)	

Indicates products with 1:1 needle-to-thread ratio

THREAD SIZES	THREAD LENGTH	NEEDLE POINT	NEEDLE-TO-THREAD RATIO	CATALOGUE NUMBERS	PROCEDURES				
1:1	1.2:1	1.3:1	1.4:1	1.5:1	1.6:1	1.7:1	1.8:1	1.9:1	2.2:1

1.2:1 Needle-to-thread ratio

Thread size:	CV-8	CV-7	CV-6	CV-5	CV-4	CV-3	CV-2	CV-0
Approximate USP size:	7-0	6-0	5-0	4-0	3-0	2-0	0	1
				TT-17 (1.2:1)	TT-17 (1.2:1)	TH-26 (1.2:1)	CS-65 (1.2:1)	
				TH-18 (1.2:1)	TH-18 (1.2:1)	TH-35 (1.2:1)	TS-50 (1.2:1)	
				PT-17 (1.2:1)	PT-17 (1.2:1)	PH-24 (1.2:1)		
				PH-17 (1.2:1)	PH-17 (1.2:1)			

THREAD SIZES	THREAD LENGTH	NEEDLE POINT	NEEDLE-TO-THREAD RATIO	CATALOGUE NUMBERS	PROCEDURES				
1:1	1.2:1	1.3:1	1.4:1	1.5:1	1.6:1	1.7:1	1.8:1	1.9:1	2.2:1

1.3:1 Needle-to-thread ratio

Thread size:	CV-8	CV-7	CV-6	CV-5	CV-4	CV-3	CV-2	CV-0
Approximate USP size:	7-0	6-0	5-0	4-0	3-0	2-0	0	1
					TH-22 (1.3:1)	PH-30 (1.3:1)		THX-26 (1.3:1)
								THX-36 (1.3:1)

THREAD SIZES	THREAD LENGTH	NEEDLE POINT	NEEDLE-TO-THREAD RATIO	CATALOGUE NUMBERS	PROCEDURES				
1:1	1.2:1	1.3:1	1.4:1	1.5:1	1.6:1	1.7:1	1.8:1	1.9:1	2.2:1

1.4:1 Needle-to-thread ratio

Thread size:	CV-8	CV-7	CV-6	CV-5	CV-4	CV-3	CV-2	CV-0
Approximate USP size:	7-0	6-0	5-0	4-0	3-0	2-0	0	1
		TTc-9 (1.4:1)	TTc-13 (1.4:1)			CS-65 (1.4:1)		
		TTc-12 (1.4:1)	THc-13 (1.4:1)					
		PT-9 (1.4:1)	PT-13 (1.4:1)					
			PH-13 (1.4:1)					

THREAD SIZES	THREAD LENGTH	NEEDLE POINT	NEEDLE-TO-THREAD RATIO	CATALOGUE NUMBERS	PROCEDURES				
1:1	1.2:1	1.3:1	1.4:1	1.5:1	1.6:1	1.7:1	1.8:1	1.9:1	2.2:1

1.5:1 Needle-to-thread ratio

Thread size:	CV-8	CV-7	CV-6	CV-5	CV-4	CV-3	CV-2	CV-0
Approximate USP size:	7-0	6-0	5-0	4-0	3-0	2-0	0	1
PH-65 (1.5:1)								

Thread sizes	Thread length			Needle point		Needle-to-thread ratio	Catalogue numbers		Procedures
1:1	1.2:1	1.3:1	1.4:1	1.5:1	1.6:1	1.7:1	1.8:1	1.9:1	2.2:1

1.6:1 Needle-to-thread ratio

Thread size:	CV-8	CV-7	CV-6	CV-5	CV-4	CV-3	CV-2	CV-0
Approximate USP size:	7-0	6-0	5-0	4-0	3-0	2-0	0	1
	TTc-7 (1.6:1)	TTc-13 (1.6:1)	TH-18 (1.6:1)		TH-26 (1.6:1)		TFX-25 (1.6:1)	TFX-25 (1.6:1)
		THc-13 (1.6:1)			TH-35 (1.6:1)		THX-26 (1.6:1)	TLX-25 (1.6:1)
		PT-13 (1.6:1)			PH-24 (1.6:1)		THX-36 (1.6:1)	TH-50 (1.6:1)
								THX-25 (1.6:1)

THREAD SIZES	THREAD LENGTH	NEEDLE POINT	NEEDLE-TO-THREAD RATIO	CATALOGUE NUMBERS	PROCEDURES				
1:1	1.2:1	1.3:1	1.4:1	1.5:1	1.6:1	1.7:1	1.8:1	1.9:1	2.2:1

1.7:1 Needle-to-thread ratio

Thread size:	CV-8	CV-7	CV-6	CV-5	CV-4	CV-3	CV-2	CV-0
Approximate USP size:	7-0	6-0	5-0	4-0	3-0	2-0	0	1
				TH-22 (1.7:1)				
				TH-26 (1.7:1)				

Thread sizes	Thread length		Needle point	Needle-to-thread ratio		Catalogue numbers	Procedures		
1:1	1.2:1	1.3:1	1.4:1	1.5:1	1.6:1	1.7:1	1.8:1	1.9:1	2.2:1

1.8:1 Needle-to-thread ratio

Thread size:	CV-8	CV-7	CV-6	CV-5	CV-4	CV-3	CV-2	CV-0
Approximate USP size:	7-0	6-0	5-0	4-0	3-0	2-0	0	1

PH-35 (1.8:1)

Thread sizes	Thread length		Needle point		Needle-to-thread ratio		Catalogue numbers	Procedures	
1:1	1.2:1	1.3:1	1.4:1	1.5:1	1.6:1	1.7:1	1.8:1	1.9:1	2.2:1

1.9:1 Needle-to-thread ratio

Thread size:	CV-8	CV-7	CV-6	CV-5	CV-4	CV-3	CV-2	CV-0
Approximate USP size:	7-0	6-0	5-0	4-0	3-0	2-0	0	1
	TTc-9 (1.9:1)						TLX-25 (1.9:1)	
	PT-9 (1.9:1)						THX-22 (1.9:1)	
							THX-25 (1.9:1)	
							PS-4 (1.9:1)	

THREAD SIZES	THREAD LENGTH	NEEDLE POINT	NEEDLE-TO-THREAD RATIO	CATALOGUE NUMBERS	PROCEDURES				
1:1	1.2:1	1.3:1	1.4:1	1.5:1	1.6:1	1.7:1	1.8:1	1.9:1	2.2:1

2.2:1 Needle-to-thread ratio

Thread size:	CV-8	CV-7	CV-6	CV-5	CV-4	CV-3	CV-2	CV-0
Approximate USP size:	7-0	6-0	5-0	4-0	3-0	2-0	0	1
	TTc-13 (2.2:1)							
	PT-13 (2.2:1)							

CV-8 Thread size | Approximate USP size 7-0

Double-armed needles

Catalogue number	Thread size	Thread length	Needle code
8J02	CV-8	18" (46 cm)	TTc-9
8K02	CV-8	24" (61 cm)	TTc-9
8K08	CV-8	24" (61 cm)	PT-9
8K10	CV-8	24" (61 cm)	TTc-7
8M02	CV-8	30" (76 cm)	TTc-9
8M04	CV-8	30" (76 cm)	TTc-13
8M06	CV-8	30" (76 cm)	PT-13
8M08	CV-8	30" (76 cm)	PT-9

CV-7 Thread size | Approximate USP size 6-0

Double-armed needles

Catalogue number	Thread size	Thread length	Needle code
7J02	CV-7	18" (46 cm)	TTc-9
7K02	CV-7	24" (61 cm)	TTc-9
7K04	CV-7	24" (61 cm)	PT-9
7K06	CV-7	24" (61 cm)	TTc-13
7M02	CV-7	30" (76 cm)	TTc-9
7M04	CV-7	30" (76 cm)	PT-9
7M06	CV-7	30" (76 cm)	TTc-9
7M08	CV-7	30" (76 cm)	PT-13
7M10	CV-7	30" (76 cm)	THc-13
7M12	CV-7	30" (76 cm)	TTc-12

CV-6 Thread size | Approximate USP size 5-0

Double-armed needles

Catalogue number	Thread size	Thread length	Needle code
6J02	CV-6	18" (46 cm)	TTc-9
6K02	CV-6	24" (61 cm)	TTc-9
6K06	CV-6	24" (61 cm)	PT-9
6M02	CV-6	30" (76 cm)	TTc-9
6M04	CV-6	30" (76 cm)	TTc-13
6M06	CV-6	30" (76 cm)	PT-9
6M08	CV-6	30" (76 cm)	PT-13
6M10	CV-6	30" (76 cm)	TTc-12
6M12	CV-6	30" (76 cm)	THc-13
6M14	CV-6	30" (76 cm)	PH-13
6M24	CV-6	30" (76 cm)	THc-9
6N04	CV-6	36" (91 cm)	TTc-13
6N16	CV-6	36" (91 cm)	TH-18

Bold indicates 1:1 needle-to-thread ratio to minimize suture hole bleeding.

CV-5 Thread size | Approximate USP size 4-0

Double-armed needles

Catalogue number	Thread size	Thread length	Needle code
5K02	CV-5	24" (61 cm)	TTc-13
5K12	CV-5	24" (61 cm)	THc-13
5M02	CV-5	30" (76 cm)	TTc-13
5M12	CV-5	30" (76 cm)	THc-13
5M16	CV-5	30" (76 cm)	PH-13
5N02	CV-5	36" (91 cm)	TTc-13
5N04	CV-5	36" (91 cm)	TH-18
5N06	CV-5	36" (91 cm)	TT-17
5N08	CV-5	36" (91 cm)	PT-13
5N10	CV-5	36" (91 cm)	PT-17
5N12	CV-5	36" (91 cm)	THc-13
5N14	CV-5	36" (91 cm)	PH-17
5N20	CV-5	36" (91 cm)	TH-26

Bold indicates 1:1 needle-to-thread ratio to minimize suture hole bleeding.

CV-4 Thread size | Approximate USP size 3-0

Double-armed needles

Catalogue number	Thread size	Thread length	Needle code
4N02	CV-4	36" (91 cm)	TH-18
4N04	CV-4	36" (91 cm)	TT-17
4N06	CV-4	36" (91 cm)	TH-26
4N08	CV-4	36" (91 cm)	PH-17
4N10	CV-4	36" (91 cm)	PT-17
4N12	CV-4	36" (91 cm)	TH-35
4N16	CV-4	36" (91 cm)	PH-24
4U02	CV-4	48" (122 cm)	TH-18
4U06	CV-4	48" (122 cm)	TH-26

CV-3 Thread size | Approximate USP size 2-0

Double-armed needles

Catalogue number	Thread size	Thread length	Needle code
3N02	CV-3	36" (91 cm)	TT-17
3N04	CV-3	36" (91 cm)	TH-18
3N06	CV-3	36" (91 cm)	TH-35
3N08	CV-3	36" (91 cm)	TH-26
3N10	CV-3	36" (91 cm)	PH-24
3N12	CV-3	36" (91 cm)	PH-17
3N14	CV-3	36" (91 cm)	PT-17
3U06	CV-3	48" (122 cm)	TH-35
3U08	CV-3	48" (122 cm)	TH-26
3U10	CV-3	48" (122 cm)	PH-24
3U20	CV-3	48" (122 cm)	PH-35

Bold indicates 1:1 needle-to-thread ratio to minimize suture hole bleeding.

CV-2 Thread size | Approximate USP size 0

Single-armed needles

Catalogue number	Thread size	Thread length	Needle code
2M25	CV-2	30" (76 cm)	CS-65
2N01	CV-2	36" (91 cm)	TH-26
2N03	CV-2	36" (91 cm)	THX-22
2N05	CV-2	36" (91 cm)	THX-26
2N07	CV-2	48" (122 cm)	THX-36
2N13	CV-2	36" (91 cm)	THX-25
2N19	CV-2	48" (122 cm)	TFX-25
2N23	CV-2	48" (122 cm)	TS-50

Bold indicates 1:1 needle-to-thread ratio to minimize suture hole bleeding.

CV-2 Thread size | Approximate USP size 0

Double-armed needles

Catalogue number	Thread size	Thread length	Needle code
2N02	CV-2	36" (91 cm)	TH-26
2N06	CV-2	36" (91 cm)	THX-26
2N08	CV-2	36" (91 cm)	THX-36
2N10	CV-2	36" (91 cm)	PH-24

Bold indicates 1:1 needle-to-thread ratio to minimize suture hole bleeding.

CV-0 Thread size | Approximate USP size 1

Single-armed needles

Catalogue number	Thread size	Thread length	Needle code
ON05	CV-0	36" (91 cm)	THX-26
ON07	CV-0	36" (91 cm)	THX-36
ON09	CV-0	36" (91 cm)	TFX-25
ON13	CV-0	36" (91 cm)	THX-25
OU01	CV-0	48" (122 cm)	TH-50
OU03	CV-0	48" (122 cm)	TLX-25

CV-0 Thread size | Approximate USP size 1

Double-armed needles

Catalogue number	Thread size	Thread length	Needle code
ON08	CV-0	36" (91 cm)	THX-36
OU06	CV-0	48" (122 cm)	THX-26

AV access graft

				Thread Size:	
				CV-7	CV-6
				Approximate USP Size:	
				6-0	5-0
Needle type	Double-armed needles	Needle code	Thread length	Catalogue number	
 Taper point 3/8 circle		TTc-9	24"–61 cm	7K02	6K02
			30"–76 cm	7M02	6M02
		TTc-12	30"–76 cm	7M12	6M10
		TTc-13	24"–61 cm	7K06	
			30"–76 cm	7M06	6M04

Ethicon reference	Medtronic reference
BV-1, BV175-8	CV-1, CVF-1, MV-175-8
BV	CV-11, CVF
C-1	CV-11, CVF-11

Bold indicates 1:1 needle-to-thread ratio to minimize suture hole bleeding.

THREAD SIZES	THREAD LENGTH	NEEDLE POINT	NEEDLE-TO-THREAD RATIO	CATALOGUE NUMBERS	PROCEDURES
AV access graft	AV fistula	Bypass	Carotid endarterectomy	Chest wall reconstruction	Ventral hernia repair

AV fistula

Thread Size: CV-8 CV-7 Approximate USP Size: 7-0 6-0							
Needle type	Double-armed needles	Needle code	Thread length	Catalogue number		Ethicon reference	Medtronic reference
 Taper point 3/8 circle		TTc-9	18"–46 cm	8J02	7J02	BV130-5	CV-351, MV-135-5

Thread sizes	Thread length	Needle point	Needle-to-thread ratio	Catalogue numbers	Procedures
AV access graft	AV fistula	Bypass	Carotid endarterectomy	Chest wall reconstruction	Ventral hernia repair
Aorto-bifemoral	Femoro-popliteal	Anastomoses	Axillo-fermoral		
Distal	Proximal				

Distal aorto-bifemoral

				Thread Size:	
				CV-6	CV-5
				Approximate USP Size: 5-0	4-0
Needle type	Double-armed needles	Needle code	Thread length	Catalogue number	
 Taper point 3/8 circle		TTc-12	30"–76 cm	6M10	
		TTc-13	30"–76 cm	6M04	5M02
 Taper point 1/2 circle		THc-13	30"–76 cm	6M12	5M12
		TH-18	36"–91 cm	6N16	5N04

Ethicon reference	Medtronic reference
BV130-5	CV-351, MV-135-5
C-1	CV-11, CVF-11
N/A	CV-20
RB-1	CV-23, CVF-23

Bold indicates 1:1 needle-to-thread ratio to minimize suture hole bleeding.

THREAD SIZES	THREAD LENGTH	NEEDLE POINT	NEEDLE-TO-THREAD RATIO	CATALOGUE NUMBERS	PROCEDURES
AV access graft	AV fistula	Bypass	Carotid endarterectomy	Chest wall reconstruction	Ventral hernia repair
Aorto-bifemoral	Femoro-popliteal	Anastomoses	Axillo-femoral		
Distal	Proximal				

Proximal aorto-bifemoral

				Thread Size:			
				CV-4		CV-3	
		Approximate USP Size:		3-0		2-0	
Needle type	Double-armed needles	Needle code	Thread length	Catalogue number		Ethicon reference	Medtronic reference
Taper point 1/2 circle		TH-18	36"–91 cm	4N02	3N04	N/A	CV-20
		TH-26	36"–91 cm	4N06	3N08	SH	V-20
Piercing point 1/2 circle		PH-24	36"–91 cm	4N16	3N10	N/A	N/A

Bold indicates 1:1 needle-to-thread ratio to minimize suture hole bleeding.

THREAD SIZES	THREAD LENGTH	NEEDLE POINT	NEEDLE-TO-THREAD RATIO	CATALOGUE NUMBERS	PROCEDURES
AV access graft	AV fistula	Bypass	Carotid endarterectomy	Chest wall reconstruction	Ventral hernia repair
Aorto-bifemoral	Femoro-popliteal	Anastomoses	Axillo-femoral		
	Distal	Proximal			

Distal femoro-popliteal

				Thread Size:		
				CV-8	CV-7	CV-6
				7-0	6-0	5-0
				Approximate USP Size:		
Needle type	Double-armed needles	Needle code	Thread length	Catalogue number		
Taper point 3/8 circle		TTC-9	24"–61 cm	8K02	7K02	6K02
			30"–76 cm	8M02	7M02	
Piercing point 3/8 circle Multifaceted tip for tough tissue, tapered body		PT-9	30"–76 cm	8M08	7M04	6M06

Bold indicates 1:1 needle-to-thread ratio to minimize suture hole bleeding.

Ethicon reference	Medtronic reference
BV-1, BV175-8	CV-1, CVF-1, MV-175-8
CC	KV-1

THREAD SIZES	THREAD LENGTH	NEEDLE POINT	NEEDLE-TO-THREAD RATIO	CATALOGUE NUMBERS	PROCEDURES
AV access graft	AV fistula	Bypass	Carotid endarterectomy	Chest wall reconstruction	Ventral hernia repair
Aorto-bifemoral	Femoro-popliteal	Anastomoses	Axillo-femoral		
	Distal	Proximal			

Proximal femoro-popliteal

					Thread Size:	
					CV-6	CV-5
					Approximate USP Size:	
					5-0	4-0
Needle type	Double-armed needles	Needle code	Thread length	Catalogue number	Ethicon reference	Medtronic reference
 Taper point 3/8 circle		TTc-9	30"–76 cm	6M02	BV-1, BV175-8	CV-1, CVF-1, MV-175-8
		TTc-12	30"–76 cm	6M10		
		TTc-13	30"–76 cm	6M04		
			36"–91 cm	6N04		
 Piercing point 3/8 circle Multifaceted tip for tough tissue, tapered body		PT-13	30"–76 cm	6M08	CC-1	KV-11
			36"–91 cm			

Bold indicates 1:1 needle-to-thread ratio to minimize suture hole bleeding.

THREAD SIZES	THREAD LENGTH	NEEDLE POINT	NEEDLE-TO-THREAD RATIO	CATALOGUE NUMBERS	PROCEDURES
AV access graft	AV fistula	Bypass	Carotid endarterectomy	Chest wall reconstruction	Ventral hernia repair
Aorto-bifemoral	Femoro-popliteal	Anastomoses			Axillo-femoral
		Distal	Proximal		

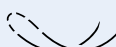
Distal anastomoses

				Thread Size:	CV-8	CV-7	CV-6		
				Approximate USP Size:	7-0	6-0	5-0		
Needle type	Double-armed needles	Needle code	Thread length	Catalogue number			Ethicon reference	Medtronic reference	
 Taper point 3/8 circle		TTc-9	24"–61 cm	8K02	7K02	6K02	BV-1, BV175-8	CV-1, CVF-1, MV-175-8	
			30"–76 cm	8M02	7M02	6M02			
		TTc-12	30"–76 cm		7M12	6M10	BV	CV-11, CVF	
 Piercing point 3/8 circle Multifaceted tip for tough tissue, tapered body		PT-9	24"–61 cm	8K08		6K06	CC	KV-1	
			30"–76 cm	8M08	7M04	6M06			
		PT-13	30"–76 cm	8M06	7M08	6M08	CC-1	KV-11	

Bold indicates 1:1 needle-to-thread ratio to minimize suture hole bleeding.

THREAD SIZES	THREAD LENGTH	NEEDLE POINT	NEEDLE-TO-THREAD RATIO	CATALOGUE NUMBERS	PROCEDURES
AV access graft	AV fistula	Bypass	Carotid endarterectomy	Chest wall reconstruction	Ventral hernia repair
Aorto-bifemoral	Femoro-popliteal	Anastomoses			Axillo-femoral
		Distal	Proximal		

Proximal anastomoses

				Thread Size:	CV-6	CV-5	
				Approximate USP Size:	5-0	4-0	
Needle type	Double-armed needles	Needle code	Thread length	Catalogue number		Ethicon reference	Medtronic reference
 Taper point 3/8 circle		TTc-9	30"–76 cm	6M02		BV130-5	CV-351, MV-135-5
		TTc-12	30"–76 cm	6M10		BV	CV-11, CVF
		TTc-13	30"–76 cm	6M04	5M02	C-1	CV-11, CVF-11
			36"–91 cm	6N04	5N02		
 Piercing point 3/8 circle Multifaceted tip for tough tissue, tapered body		PT-13	30"–76 cm	6M08		CC	KV-1
			36"–91 cm		5N08		
			PT-17	36"–91 cm		5N10	V-4

Bold indicates 1:1 needle-to-thread ratio to minimize suture hole bleeding.

Ethicon reference	Medtronic reference
BV130-5	CV-351, MV-135-5
BV	CV-11, CVF
C-1	CV-11, CVF-11
CC	KV-1
V-4	KV-15

THREAD SIZES	THREAD LENGTH	NEEDLE POINT	NEEDLE-TO-THREAD RATIO	CATALOGUE NUMBERS	PROCEDURES
AV access graft	AV fistula	Bypass	Carotid endarterectomy	Chest wall reconstruction	Ventral hernia repair
Aorto-bifemoral	Femoro-popliteal	Anastomoses	Axillo-femoral		

Axillo-femoral

				Thread Size:	
				CV-6	CV-5
				Approximate USP Size: 5-0	4-0
Needle type	Double-armed needles	Needle code	Thread length	Catalogue number	
 Taper point 3/8 circle		TTc-9	30"–76 cm	6M02	
		TTc-12	30"–76 cm	6M10	
		TTc-13	30"–76 cm	6M04	5M02
			36"–91 cm	6N04	5N02
 Piercing point 3/8 circle Multifaceted tip for tough tissue, tapered body		PT-13	30"–76 cm	6M08	
			36"–91 cm		5N08

Ethicon reference	Medtronic reference
BV130-5	CV-351, MV-135-5
BV	CV-11, CVF
C-1	CV-11, CVF-11
CC	KV-1

Bold indicates 1:1 needle-to-thread ratio to minimize suture hole bleeding.

Carotid endarterectomy

Thread Size: CV-6						
Approximate USP Size: 5-0						
Needle type	Double-armed needles	Needle code	Thread length	Catalogue number	Ethicon reference	Medtronic reference
 Taper point 3/8 circle		TTc-9	30"-76 cm	6M02	BV130-5	CV-351, MV-135-5
		TTc-13	30"-76 cm	6M04	C-1	CV-11, CVF-11

Bold indicates 1:1 needle-to-thread ratio to minimize suture hole bleeding.

THREAD SIZES	THREAD LENGTH	NEEDLE POINT	NEEDLE-TO-THREAD RATIO	CATALOGUE NUMBERS	PROCEDURES
AV access graft	AV fistula	Bypass	Carotid endarterectomy	Chest wall reconstruction	Ventral hernia repair

Chest wall reconstruction

Single-armed needles

Thread Size: CV-2 CV-0							
Approximate USP Size: 0 1							
Needle type	Single-armed needles	Needle code	Thread length	Catalogue number		Ethicon reference	Medtronic reference
⦿ Taper point 1/2 circle		TH-50	48"–122 cm		OU01	CTX	GS-25
		THX-26	36"–91 cm	2N05	ON05	CT-2	GS-22
		THX-36	36"–91 cm	2N07	ON07	CT-1	GS-21

Ventral hernia repair

				Thread Size:			
				CV-2		CV-0	
		Approximate USP Size:		0		1	
Needle type	Single-armed needles	Needle code	Thread length	Catalogue number		Ethicon reference	Medtronic reference
 Taper point 1/2 circle		TH-26	36"–91 cm	2N02		SH	V-20
		TH-50	48"–122 cm		0U01	CTX	GS-25
		THX-26	36"–91 cm	2N05	0N05	CT-2	GS-22
		THX-36	36"–91 cm	2N07	0N07	CT-1	GS-21

Bold indicates 1:1 needle-to-thread ratio to minimize suture hole bleeding.

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