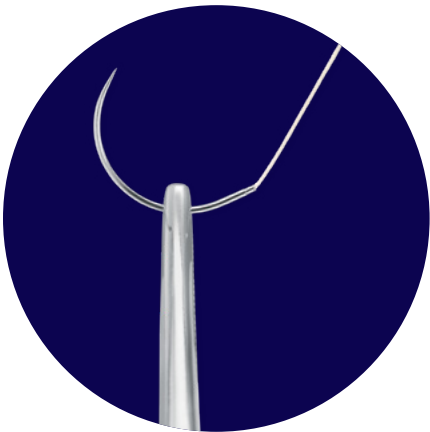


Medtronic
suture needles



Surgical needles are produced from stainless steel alloys. The properties of the alloy depends on the % ratio of the combined metals (iron, nickel, titanium, chromium etc).

Needle alloy and speciality description

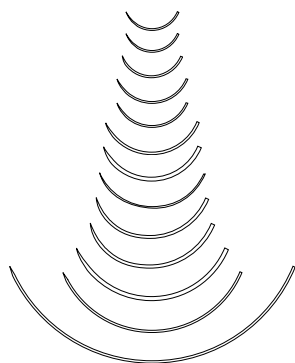
Needle Alloy	Needle Type	Needle Code
302	CardioPoint™	CV, Y
455	General Closure	C, GS, V, GU (all others)
	Vascular	CV, CVF, KV, YE, CVL, VF
	Microvascular	MV, MVF, MVK
Surgalloy™	Ophthalmic	SE, SS, HE
	Premium Cutting	P, PC
	Visceral	V

Alloy chemical compositions

Chemical Composition	Alloy		
	Surgalloy™	455	302
	Weight %		
Cr - chromium	12.00	11-12.5	17-19
Ni - nickel	9.09	7.5-9.5	8-10
Ti - titanium	0.87	0.8-1.4	-
C - carbon	0.01	0-0.05	0.15
Mn - manganese	0.20	0-0.5	2.00
Si - silicone	0.03	0-0.05	0.75
N - nitrogen	0.01	-	0.10
P - phosphorus	0.01	0-0.04	0.05
S - sulfur	0.00	0-0.03	0.03
Cu - copper	1.94	1.5-2.5	-
Mo - molybdenum	3.94	0.5	-
Cb + Ta - columbium+ tantalum	-	0.10-0.50	-
Al - aluminium	0.38	-	-
Fe - iron	Balance	Balance	Balance

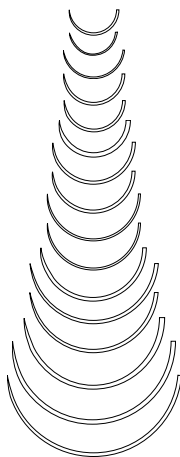
Cardiovascular

Code	Length
⊙ Taper point - $\frac{3}{8}$ circle	
CV-1/CVF-1	9 mm
CV-310	10 mm
CV/CVF	11 mm
CV-11/CVF-11	13 mm
CV-301	13 mm
CV-307	16 mm
CV-15/CVF-15	17 mm
CV-327	18 mm
CV-16	20 mm
CV-13	22 mm
CV-18	26 mm
CV-17	32 mm
CV-19	50 mm



⊙ Taper point - $\frac{1}{2}$ circle

CV-20	10 mm
CV-337	10 mm
CVF-21	12 mm
CV-22/CVF-22	13 mm
CV-330	13 mm
CV-26	15 mm
CV-331	16 mm
CV-23/CVF-23	17 mm
CV-316	20 mm
CV-24	20 mm
CV-25	22 mm
CV-305	25 mm
V-20/VF-20	26 mm
V-30	30 mm
CV-300	35 mm
V-26	37 mm



Cardiovascular

Code	Length
⊙ Taper point - CardioCurve™	
CVL	11 mm
CVL-11	13 mm
⊙ Penetrating taper - $\frac{3}{8}$ circle	
YE-1	13 mm
YE-7	18 mm
⊙ Penetrating taper - $\frac{1}{2}$ circle	
Y-31	16 mm
Y-16	20 mm
Y-5	26 mm



⊙ Tapercutting - $\frac{3}{8}$ circle

KV-1/KVF-1	9 mm
KV-11/KVF-11	13 mm
KV-15	17 mm
KV-26	26 mm



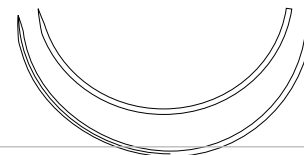
⊙ Tapercutting - $\frac{1}{2}$ circle

KV-5/KVF-5	17 mm
KV-7	26 m



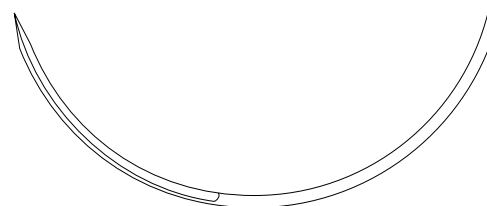
▲ Conventional cutting - $\frac{1}{2}$ circle

SCC	48 mm
SCC-1	60 mm

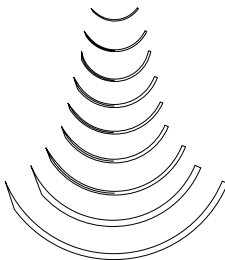


▲ Conventional cutting - $\frac{3}{8}$ circle

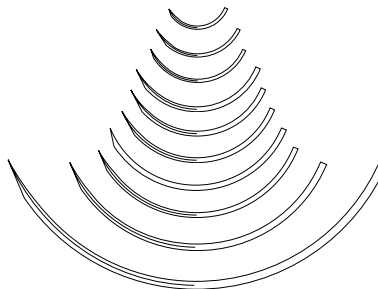
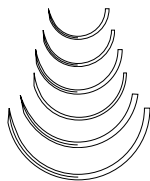
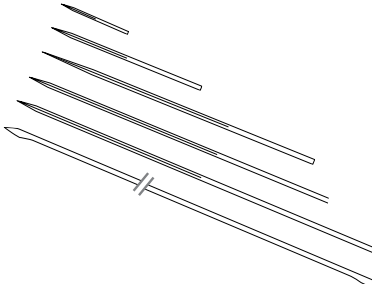
GCC-90	90 mm
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Plastic/Cosmetic

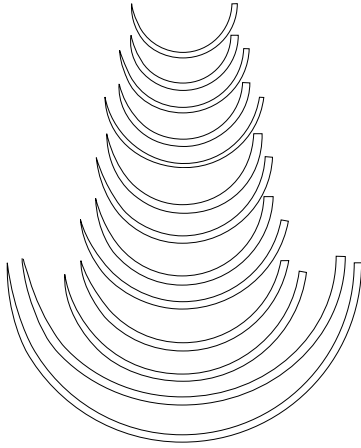
Code	Length	
▲ Premium conventional cutting - $\frac{3}{8}$ circle		
PC-13	11 mm	
PC-10	13 mm	
PC-11	16 mm	
PC-12	19 mm	
▼ Premium reverse cutting - $\frac{3}{8}$ circle		
P-16	7 mm	
P-10	11 mm	
P-13	13 mm	
P-15	15 mm	
P-11	16 mm	
P-12	19 mm	
P-14	24 mm	
P-17	30 mm	
P-18	39 mm	
▼ Premium reverse cutting - $\frac{1}{2}$ circle		
P-21	9 mm	
P-22	13 mm	
P-24	16 mm	

Cuticular

Code	Length	
▼ Reverse cutting - $\frac{3}{8}$ circle		
C-1	12 mm	
C-12	16 mm	
C-13	19 mm	
C-14	24 mm	
C-15	26 mm	
C-16	30 mm	
C-18	35 mm	
C-17	39 mm	
C-50	50 mm	
GS-18	77 mm	
▼ Reverse cutting - $\frac{1}{2}$ circle		
C-21	13 mm	
C-26	15 mm	
C-22	18 mm	
C-27	20 mm	
C-23	24 mm	
C-25	30 mm	
▲ Cutting - straight		
SC-11	11 mm	
SC-4	24 mm	
SC	44 mm	
SC-1	51 mm	
SC-2	60 mm	
SC-250	254 mm	

General surgery

Code	Length
☉ Taper point - ½ circle	
GS-23	22 mm
HGS-23	22 mm
GS-22	27 mm
HGS-22	27 mm
GS-20	34 mm
HGS-20	34 mm
GS-21	37 mm
HGS-21	37 mm
GS-24	40 mm
HGS-24	40 mm
GS-25	48 mm
GS-26	65 mm
GS-27	76 mm



☉ Taper point - straight

ST-4	19 mm	
ST-3	38 mm	
ST-2	44 mm	
ST-1	51 mm	
ST	60 mm	

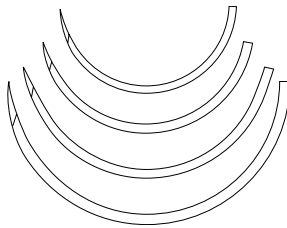
☉ Taper point - ski

SK	23 mm
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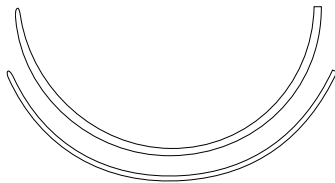
☉ Tapercutting - ½ circle

KV-34	37 mm
KV-37	40 mm
KV-40	48 mm
KV-56	60 mm



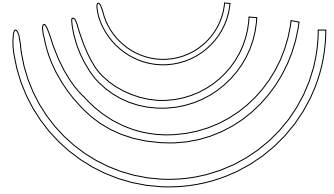
● Blunt point - ¾ circle

BP-27	64 mm
BP-9	64 mm



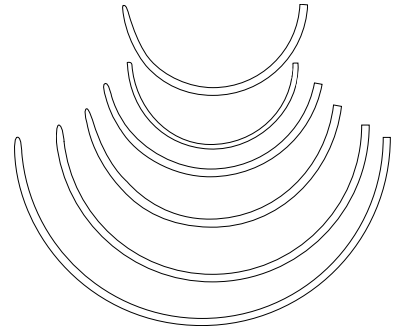
General surgery

Code	Length
☉ Blunt taper point - ½ circle	
BTB-20	26 mm
BTP-1	37 mm
BTP-X	48 mm
BGST-29	65 mm



● Blunt point - ½ circle

BGS-21	37 mm
HBGS-21	37 mm
BGS-24	40 mm
BGS-25	48 mm
BGS-29	65 mm
BGS-28	85 mm



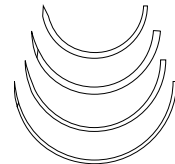
☉ Diamond point - ¾ circle

KV-20	20 mm
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☉ Diamond point - ½ circle

KV-25	22 mm
KV-30	27 mm
KV-8	30 mm
KV-9	35 mm



Microsurgery

Code	Length	
⊙ Taper point - ⅓ circle		
MV-100-3	4 mm	
MV-50-3	4 mm	
MV-70-3	4 mm	
MV-135-3	4 mm	
MV-70-4	5 mm	
MV-135-4	5 mm	
MV-100-4	5 mm	
CV-345	6 mm	
MVF-135-5	6 mm	
MV-135-5	6 mm	
CV-351	8 mm	
MV-175-8	8 mm	
MVF-175-8	8 mm	
MV-175-9	10 mm	

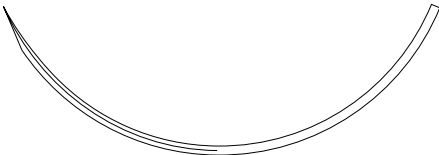
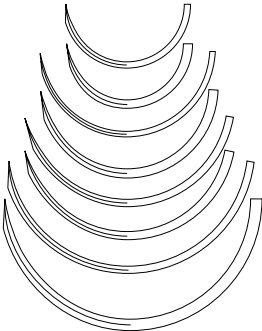
⊙ Tapercutting - ⅓ circle

MVK-70-3	4 mm
MVK-100-4	5 mm

Urology

Code	Length	
⊙ Taper point - ⅓ circle		
GU-46	27 mm	
HGU-46	27 mm	
GU-45	37 mm	
GU-44	40 mm	

Orthopedic

Code	Length	
▼ Reverse cutting - $\frac{3}{8}$ circle		
GS-18	77 mm	
▼ Reverse cutting - $\frac{1}{2}$ circle		
GS-10	26 mm	
HOS-10	26 mm	
GS-11	37 mm	
HOS-11	37 mm	
GS-12	40 mm	
HOS-12	40 mm	
GS-13	48 mm	
HOS-14	55 mm	
▼ Tapercutting - straight		
KS	24 mm	

Ophthalmic

Code	Length	Curvature	
▼ Reverse cutting - ⅓ circle			
HE-10	5.6 mm	130°	
HE-6	7.4 mm	110°	
HE-7	7.4 mm	145°	
HE-5	8.6 mm	135°	
HE-1	11.0 mm	135°	
HE-3	13.0 mm	155°	
▼ Reverse cutting - ½ circle			
HE-2	8.6 mm	205°	
▲ Inverted premium spatula - ¼ circle			
SS-29	7.4 mm	110°	
▲ Inverted premium spatula - ⅓ circle			
SS-28	7.4 mm	145°	
⚡ Premium spatula - ⅓ circle			
SS-1	5.6 mm	60°	
⚡ Premium spatula - ¼ circle			
SE-100-8	6.3 mm	100°	
SD-1	8.1 mm	90°	
SS-24	8.6 mm	95°	
SS-14	8.6 mm	115°	
⚡ Premium spatula - 5/16 circle			
SE-110-11 (previously SLO-110-11)	8.0 mm	110°	
⚡ Premium spatula - ⅓ circle			
SE-140-6	6.3 mm	140°	
SE-140-8	6.3 mm	140°	
SE-140-9	6.5 mm	140°	
⚡ Premium spatula - ½ circle			
SE-160-4	5.5 mm	160°	
SE-160-6	5.5 mm	160°	
SE-160-8	5.5 mm	160°	
SE-160-9	5.5 mm	160°	
SE-175-6	7.0 mm	175°	
SE-175-8	6.9 mm	175°	
SS-22	7.4 mm	170°	
SS-2	8.6 mm	200°	
⚡ Premium spatula - compound curve			
SE-CC-6	4.8 mm	130°	

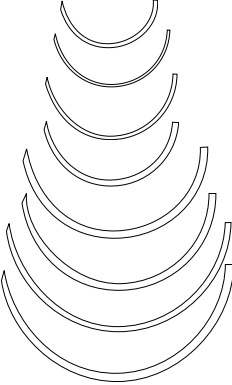
Multipurpose

Code	Length
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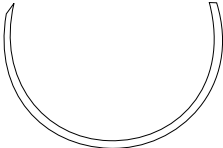
Multi-purpose - ⅓ circle

3.16	16 mm	
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Multi-purpose - ½ circle

4.21	20 mm	
4.25	25 mm	
4.30	30 mm	
4.31	30 mm	
4.41	40 mm	
4.45	45 mm	
4.50	50 mm	
4.51	50 mm	

Multi-purpose - ¾ circle

5.65	65 mm	
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Alloy grade types (Series)

300 Series
300 Series are composed of 18% chromium and 8% / 10% nickel

455 Series
S45500 is composed of 7.5-9.5% nickel, 0.8-1.4% titanium and 11-12.5% chromium

Surgalloy™

Proprietary alloy composed of 12% Chrome, 9% Nickel, 2% Cu, 0.9% Ti plus addition of Molybdenum.



Questions?
Call or email your local Medtronic representative.