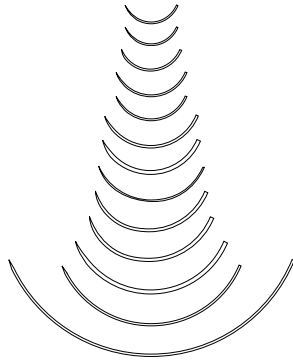


NEEDLE CHART

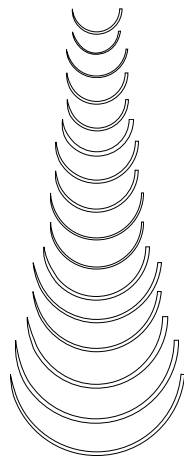
CARDIOVASCULAR

Code	Comp	Length
⊙ taper point - $\frac{3}{8}$ circle		
CV-1/CVF-1	BV-1	9 mm
CV-310	BV	10 mm
CV/CVF	BV	11 mm
CV-11/CVF-11	C-1	13 mm
CV-301	C-1*	13 mm
CV-307	BB*	16 mm
CV-15/CVF-15	BB	17 mm
CV-327	BB*	18 mm
CV-16		20 mm
CV-13	BB-1	22 mm
CV-18	TE-2	26 mm
CV-17	TE-2	32 mm
CV-19		50 mm



⊙ taper point - $\frac{1}{2}$ circle

CV-20	RB-3	10 mm
CV-337	RB-3	10 mm
CVF-21	TF	12 mm
CV-22/CVF-22	RB-2	13 mm
CV-330	RB-2	13 mm
CV-26	RB-1*	15 mm
CV-331	RB-1*	16 mm
CV-23/CVF-23	RB-1	17 mm
CV-316	SH-2	20 mm
CV-24	SH-2	20 mm
CV-25	SH-1	22 mm
CV-305	SH*	25 mm
V-20/VF-20	SH	26 mm
V-30		30 mm
CV-300	MH*	35 mm
V-26	MH*	37 mm



CARDIOVASCULAR

Code	Comp	Length
⊙ taper point - CardioCurve™		
CVL		11 mm
CVL-11		13 mm



⊙ penetrating taper - $\frac{3}{8}$ circle

YE-1	CC-1	13 mm
YE-7	V-4	18 mm



⊙ penetrating taper - $\frac{1}{2}$ circle

Y-31	V-5	16 mm
Y-16	V-6*	20 mm
Y-5	V-7	26 mm



⊙ tapercutting - $\frac{3}{8}$ circle

KV-1/KVF-1	CC	9 mm
KV-11/KVF-11	CC-1	13 mm
KV-15	V-4	17 mm
KV-26	V-26	26 mm



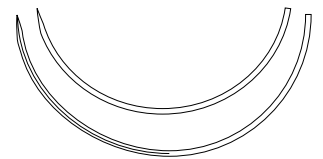
⊙ tapercutting - $\frac{1}{2}$ circle

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



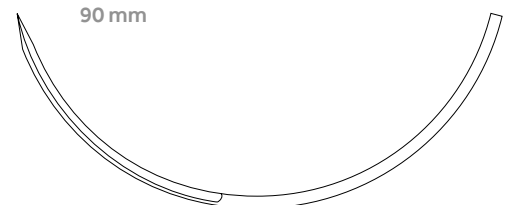
▲ conventional cutting - $\frac{1}{2}$ circle

SCC	CCS	48 mm
SCC-1	CCS-1	60 mm



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

GCC-90	90 mm
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PLASTIC/COSMETIC

Code	Comp	Length
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▲ premium conventional cutting - 3/8 circle

PC-13	P-1	11 mm	
PC-10	PC-1	13 mm	
PC-11	PC-3	16 mm	
PC-12	PC-5	19 mm	

▼ premium reverse cutting - 3/8 circle

P-16	P-6	7 mm	
P-10	P-1	11 mm	
P-13	P-3	13 mm	
P-15		15 mm	
P-11	PS-3	16 mm	
P-12	PS-2	19 mm	
P-14	PS-1	24 mm	
P-17	PSL	30 mm	
P-18	PSLX	39 mm	

▼ premium reverse cutting - 1/2 circle

P-21	P-2	9 mm	
P-22	PS-5	13 mm	
P-24	PS-4*	16 mm	

◆ DermaX™ premium X cutting · 3/8 circle

DX-11		11 mm	
DX-13		13 mm	
DX-16		16 mm	
DX-19		19 mm	

◆ DermaX™ premium X cutting · 1/2 circle

DXH-16		16 mm	1/2
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CUTICULAR

Code	Comp	Length
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▼ reverse cutting - 3/8 circle

C-1	C-2*	12 mm	
C-12	FS-3	16 mm	
C-13	FS-2	19 mm	
C-14	FS-1	24 mm	
C-15	FS	26 mm	
C-16	FSL	30 mm	
C-18		35 mm	
C-17	FSLX*	39 mm	
C-50	LS-1*	50 mm	
GS-18	LS-1*	77 mm	

▼ reverse cutting - 1/2 circle

C-21	M-1*	13 mm	
C-26	J-1*	15 mm	
C-22	J-1	18 mm	
C-27		20 mm	
C-23	X-1*	24 mm	
C-25	CP-2*	30 mm	

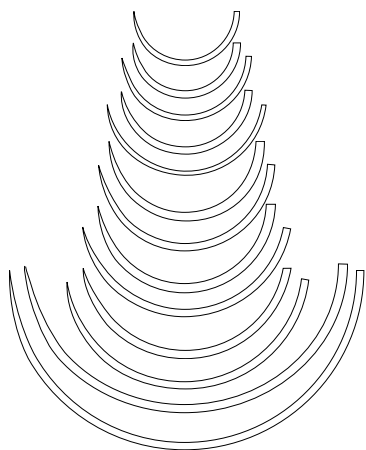
▲ cutting - straight

SC-11	SC-1*	11 mm	
SC-4		24 mm	
SC		44 mm	
SC-1	TS*	51 mm	
SC-2	KS	60 mm	
SC-250		254 mm	






*Suggested

GENERAL SURGERY

Code	Comp	Length
⊙ taper point - ½ circle		
GS-23	CT-3	22 mm
HGS-23	MO-7	22 mm
GS-22	CT-2	27 mm
HGS-22	MO-6	27 mm
GS-20	CT-1*	34 mm
HGS-20	MO-5*	34 mm
GS-21	CT-1	37 mm
HGS-21	MO-4	37 mm
GS-24	CT	40 mm
HGS-24	MO-2	40 mm
GS-25	CTX	48 mm
GS-26	TP-1	65 mm
GS-27	XLH	76 mm



⊙ taper point - straight

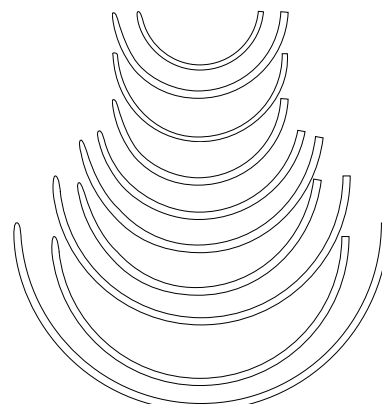
ST-4	ST-4	19 mm	
ST-3		38 mm	
ST-2		44 mm	
ST-1	ST	51 mm	
ST		60 mm	

⊙ taper point - ski

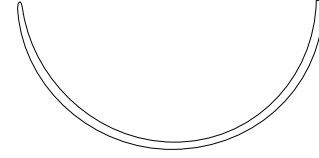
SK		23 mm	
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● blunt taper point - Protect•Point™ - ½ circle

BTV-20	SHB	26 mm
BGS-21	CTB-1	37 mm
HBSG-21	MOB-4	37 mm
BTP-1	CTB-1	37 mm
BGS-24		40 mm
BGS-25	CTX-B	48 mm
BTP-X	CTX-B	48 mm
BGS-29	BP-1	65 mm
BGST-29	BP-1	65 mm
BGS-28	BP*	85 mm



● blunt point - Protect•Point™ - ½ circle

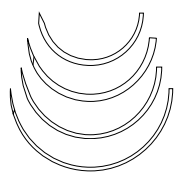
BP-27		64 mm	
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⊖ diamond point - ⅓ circle

KV-20		20 mm	
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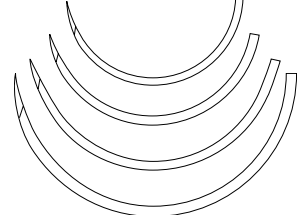
GENERAL SURGERY

Code	Comp	Length
⊖ diamond point - ½ circle		
KV-25		22 mm
KV-30		27 mm
KV-8		30 mm
KV-9		35 mm




⊖ tapercutting - ½ circle

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



MICROSURGERY

Code	Comp	Length
⊙ taper point - ⅓ circle		
MV-100-3	BV-100-3	4 mm
MV-50-3	BV-50-3	4 mm
MV-70-3	BV-75-3	4 mm
MV-135-3	BV-130-3*	4 mm
MV-70-4	BV-75-4	5 mm
MV-135-4	BV-130-4*	5 mm
MV-100-4	BV-100-4	5 mm
CV-345	BV-130-5	6 mm
MVF-135-5	BV-130-5	6 mm
MV-135-5	BV-130-5	6 mm
CV-351	BV-175-6	8 mm
MV-175-8	BV-175-6	8 mm
MVF-175-8	BV-175-6	8 mm
MV-175-9	BV-175-8	10 mm



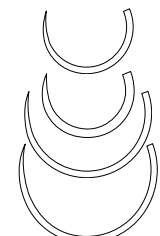
⊖ tapercutting - ⅓ circle

MVK-70-3	BV-75-3	4 mm
MVK-100-4	BV-100-4	5 mm



UROLOGY

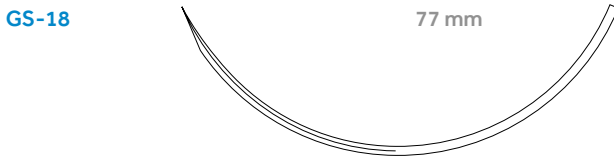
Code	Comp	Length
⊙ taper point - ⅓ circle		
GU-46	UR-6	27 mm
HGU-46	UR-6	27 mm
GU-45	UR-5	37 mm
GU-44	UR-4	40 mm



ORTHOPEDIC

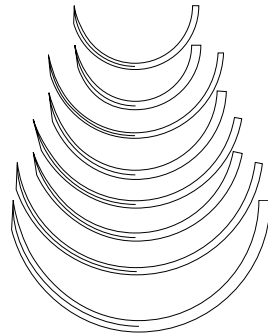
Code	Comp	Length
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▼ reverse cutting - 3/8 circle



▼ reverse cutting - 1/2 circle

GS-10	CP-2	26 mm
HOS-10	OS-4*	26 mm
GS-11	CP-1	37 mm
HOS-11	OS-6	37 mm
GS-12	CP	40 mm
HOS-12	OS-8	40 mm
GS-13	CPX	48 mm
HOS-14		55 mm



🔗 tapercutting - straight

KS	24 mm
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*Suggested



OPHTHALMIC

Code	Length	Curvature	Comp
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▼ reverse cutting - 3/8 circle

HE-10	5.6 mm	130°	G-6° 110°	
HE-6	7.4 mm	110°	G-6° 110°	
HE-7	7.4 mm	145°	G-7° 165°	
HE-5	8.6 mm	135°		
HE-1	11.0 mm	135°	G-1° 135°	
HE-3	13.0 mm	155°	G-3° 155°	

▼ reverse cutting - 1/2 circle

HE-2	8.6 mm	205°	G-2° 180°	
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🔗 inverted premium spatula - 1/4 circle

SS-29	7.4 mm	110°	S-29° 110°	
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🔗 inverted premium spatula - 3/8 circle

SS-28	7.4 mm	145°	S-28° 163°	
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🔗 premium spatula - 1/8 circle

SS-1	5.6 mm	60°	SM-1° 60°	
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🔗 premium spatula - 1/4 circle

SE-100-8	6.3 mm	100°	TG-100-8 97°	
SD-1	8.1 mm	90°	RD-1 90°	
SS-24	8.6 mm	95°	S-24 90°	
SS-14	8.6 mm	115°	S-14 112°	

🔗 premium spatula - 5/16 circle

SE-110-11	8.0 mm	110°	S-29° 110°	
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(previously SLO-110-11)

🔗 premium spatula - 3/8 circle

SE-140-6	6.3 mm	140°	TG-140-6/CS-140-6 140°	
SE-140-8	6.3 mm	140°	TG-140-8/CS-140-8 140°	
SE-140-9	6.5 mm	140°	TG-140-8 137°	

🔗 premium spatula - 1/2 circle

SE-160-4	5.5 mm	160°	TG-160-4/CS-160-4 160°	
SE-160-6	5.5 mm	160°	TG-160-6/CS-160-6 160°	
SE-160-8	5.5 mm	160°	TG-160-8/CS-160-8 160°	
SE-160-9	5.5 mm	160°	TG-160-8/CS-160-8 160°	
SE-175-6	7.0 mm	175°	TG-175-6/CS-175-6 175°	
SE-175-8	6.9 mm	175°	TG-175-8/CS-175-8 175°	
SS-22	7.4 mm	170°	S-22 170°	
SS-2	8.6 mm	200°	S-2 180°	

🔗 premium spatula - compound curve

SE-CC-6	4.8 mm	130°	TG6-S	
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