VERTMED
GmbH

CE 0123 ISO 9001

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VERTMED
GmbH

Die Firma VERTMED wurde im Jahr 2002 gegründet
Unser Ziel ist ein Produkt hoher Qualität mit günstigen Preisen für Chiruegen und Ärzte anzubieten.
Die Zusammenarbiet unserer Mitarbeiter mit den Bestrebungen der Verwaltung und mit Anwendung hoch entwickelter Technik machte die Erfüllung dieser Zielstellung möglich.
Somit Können wir die Abfrage und Kaufanträge weltwiet in Kürzester Zeit erfüllen.
Die Firma hat ein CE – Zertifikat in ISO 9001 erwben.

The virm was established in 2002, our goal is to provide high quality products at reasonable prices satisfying surgeons, doctors and financial administration.
The cooperation between personnel in the company, the determination of the administration and the high technology employed lead to achieve this difficult goal.
We commit to accomplish any order speedily all over the world.
We have obtained CE Certificate, ISO 9001

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Chromic
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Vertcryl®
Coated Braided PolyGlycolic Acid absorbable sutures 43

PDV®
Monofilament Polydioxanon Synthetic Absorbable sutures 55

Silk
Coated Braided Non-absorbable sutures 67

Polyester
coated Braided Non-absorbable sutures 81

Vertpro®
Monofilament Polypropylene Non-absorbable sutures 89

Nylon
Monofilament Polyamide Non-absorbable sutures 101

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Suture sections

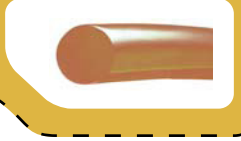
Absorbable

Vertcryl®
Coated Braided PolyGlycolic Acid absorbable sutures

PDV®
Monofilament Polydioxanon Synthetic Absorbable sutures

Plain
Coated Braided PolyGlycolic Acid absorbable sutures

Chromic
Coated Braided PolyGlycolic Acid absorbable sutures



Non-Absorbable

Vertpro®
Monofilament Polypropylene Non-absorbable sutures

Nylon
Chromic catgut absorbable sutures

Polyester
Coated Braided Non-absorbable sutures

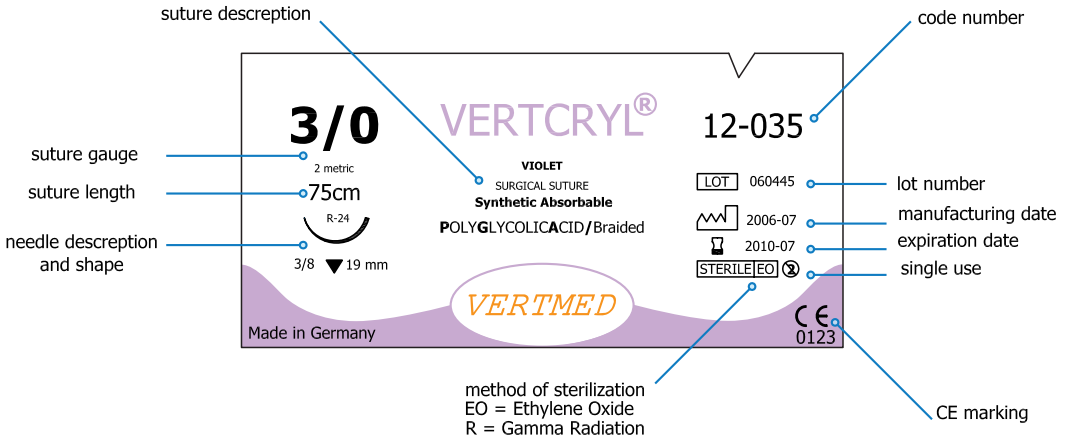
Silk
Coated Braided Non-absorbable sutures

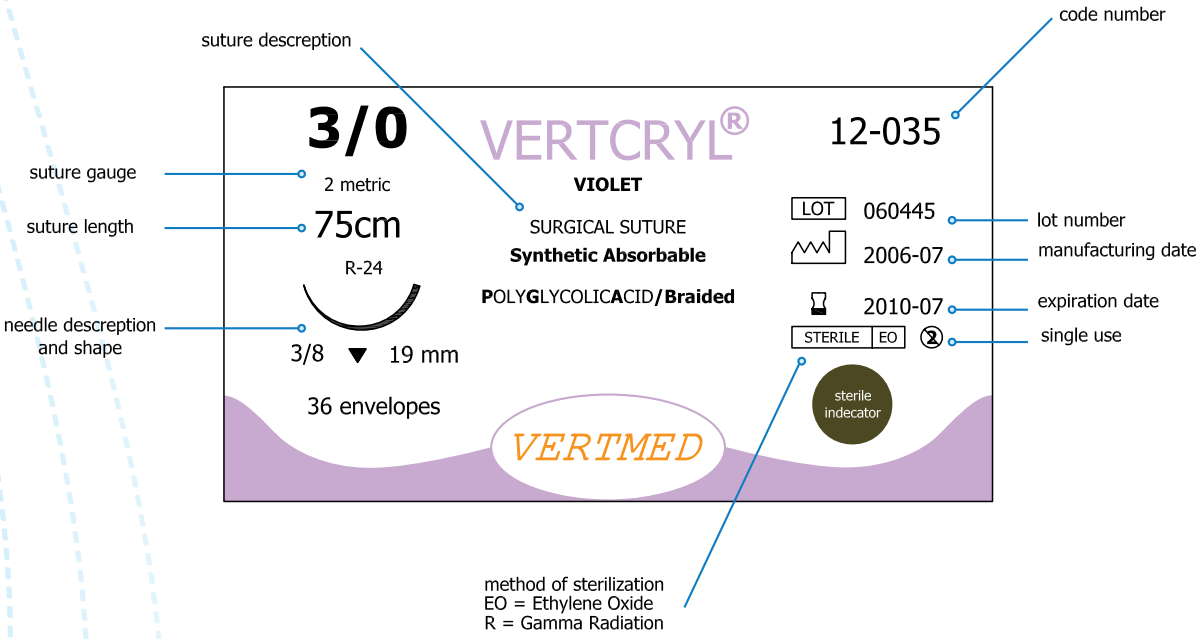
Tensile Strength Table (min requirements)

		NON-ABSORBABLE		SYNTHETIC ABSORBABLE		
		DIAMETE	TENSILE STRENGTH	DIAMETER		TENSILE STRENGTH
				MONOFILAMENT	MULTIFILAMENT	
usp	metric	min-max (mm)	min - average(kgf)	min-max (mm)	min-max (mm)	min-average(kgf)
11/0	0.1	0.010 - 0.019		-	-	-
10/0	0.2	0.020 - 0.029	0.010-	-	-	-
9/0	0.3	0.030 - 0.039	0.035-	-	-	0.023 - 0.045
8/0	0.4	0.040 - 0.049	0.060-	-	0.040 - 0.049	0.035 - 0.070
7/0	0.5	0.050 - 0.069	0.030 - 0.102	0.050 - 0.094	0.050 - 0.069	0.070 - 0.140
6/0	0.7	0.070 - 0.099	0.060 - 0.150	0.095 - 0.149	0.070 - 0.099	0.130 - 0.250
5/0	1	0.100 - 0.149	0.102 - 0.310	0.150 - 0.199	0.100 - 0.149	0.340 - 0.680
4/0	1.5	0.150 - 0.199	0.150 - 0.510	0.200 - 0.249	0.150 - 0.199	0.470 - 0.950
3/0	2	0.200 - 0.249	0.310 - 0.920	0.250 - 0.339	0.200 - 0.249	0.890 - 1.750
2/0	3	0.300 - 0.349	0.920 - 1.530	0.340 - 0.399	0.300 - 0.349	1.340 - 2.680
0	3.5	0.350 - 0.399	1.330 - 2.240	0.400 - 0.499	0.350 - 0.399	1.850 - 3.900
1	4	0.400 - 0.499	1.530 - 2.750	0.500 - 0.570	0.400 - 0.499	2.540 - 5.080
2	5	0.500 - 0.599	2.240 - 3.570	0.571 - 0.610	0.500 - 0.599	3.180 - 6.350
3 & 4	6	0.600 - 0.699	2.750 - 5.100	-	-	-

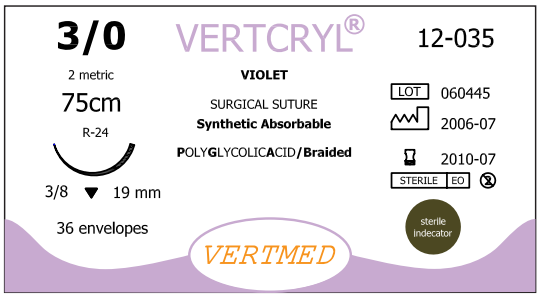
Adopted from EP and USP

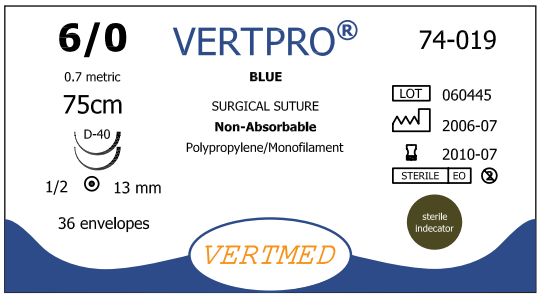
Explanation of labelling

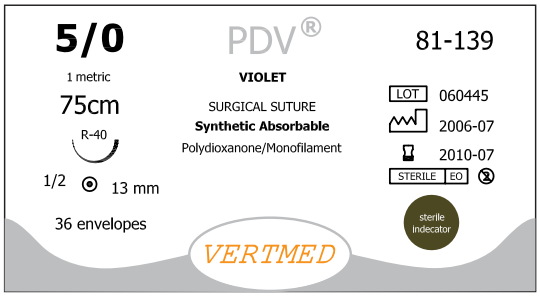


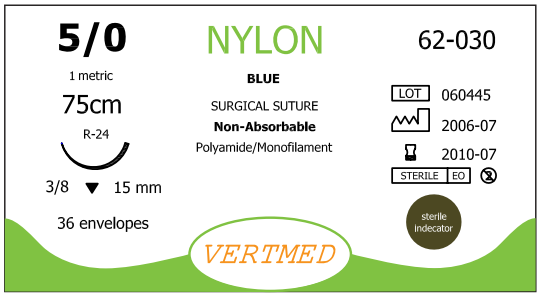


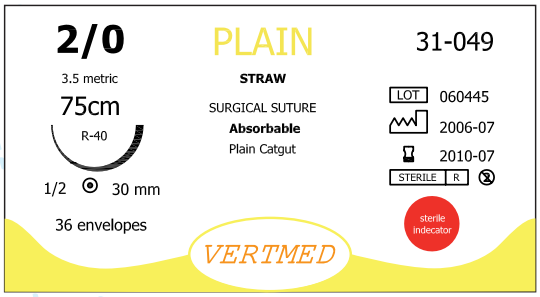
Labels

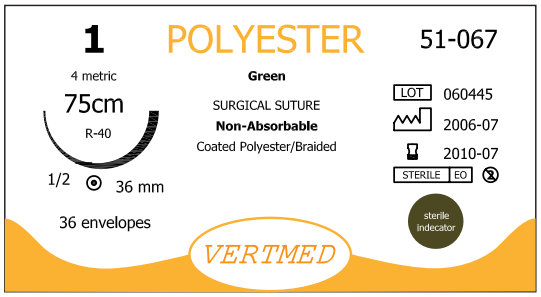

3/0
2 metric
75cm
R-24
3/8
19 mm
36 envelopes
VERTCRYL®
VIOLET
SURGICAL SUTURE
Synthetic Absorbable
POLYGLYCOLICACID/Braided
12-035
LOT 060445
2006-07
2010-07
STERILE EO
sterile indecator
VERTMED

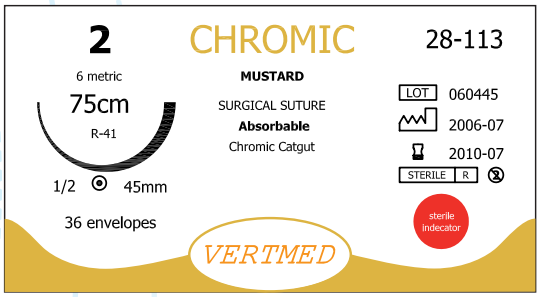

6/0
0.7 metric
75cm
D-40
1/2
13 mm
36 envelopes
VERTPRO®
BLUE
SURGICAL SUTURE
Non-Absorbable
Polypropylene/Monofilament
74-019
LOT 060445
2006-07
2010-07
STERILE EO
sterile indecator
VERTMED

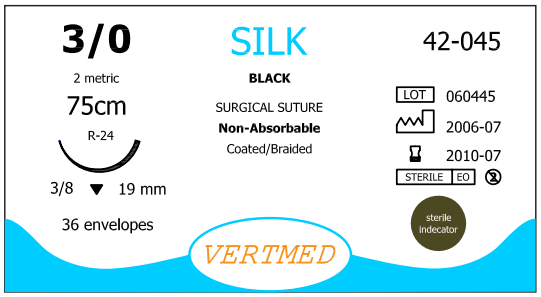

5/0
1 metric
75cm
R-40
1/2
13 mm
36 envelopes
PDV®
VIOLET
SURGICAL SUTURE
Synthetic Absorbable
Polydioxanone/Monofilament
81-139
LOT 060445
2006-07
2010-07
STERILE EO
sterile indecator
VERTMED


5/0
1 metric
75cm
R-24
3/8
15 mm
36 envelopes
NYLON
BLUE
SURGICAL SUTURE
Non-Absorbable
Polyamide/Monofilament
62-030
LOT 060445
2006-07
2010-07
STERILE EO
sterile indecator
VERTMED


2/0
3.5 metric
75cm
R-40
1/2
30 mm
36 envelopes
PLAIN
STRAW
SURGICAL SUTURE
Absorbable
Plain Catgut
31-049
LOT 060445
2006-07
2010-07
STERILE R
sterile indecator
VERTMED

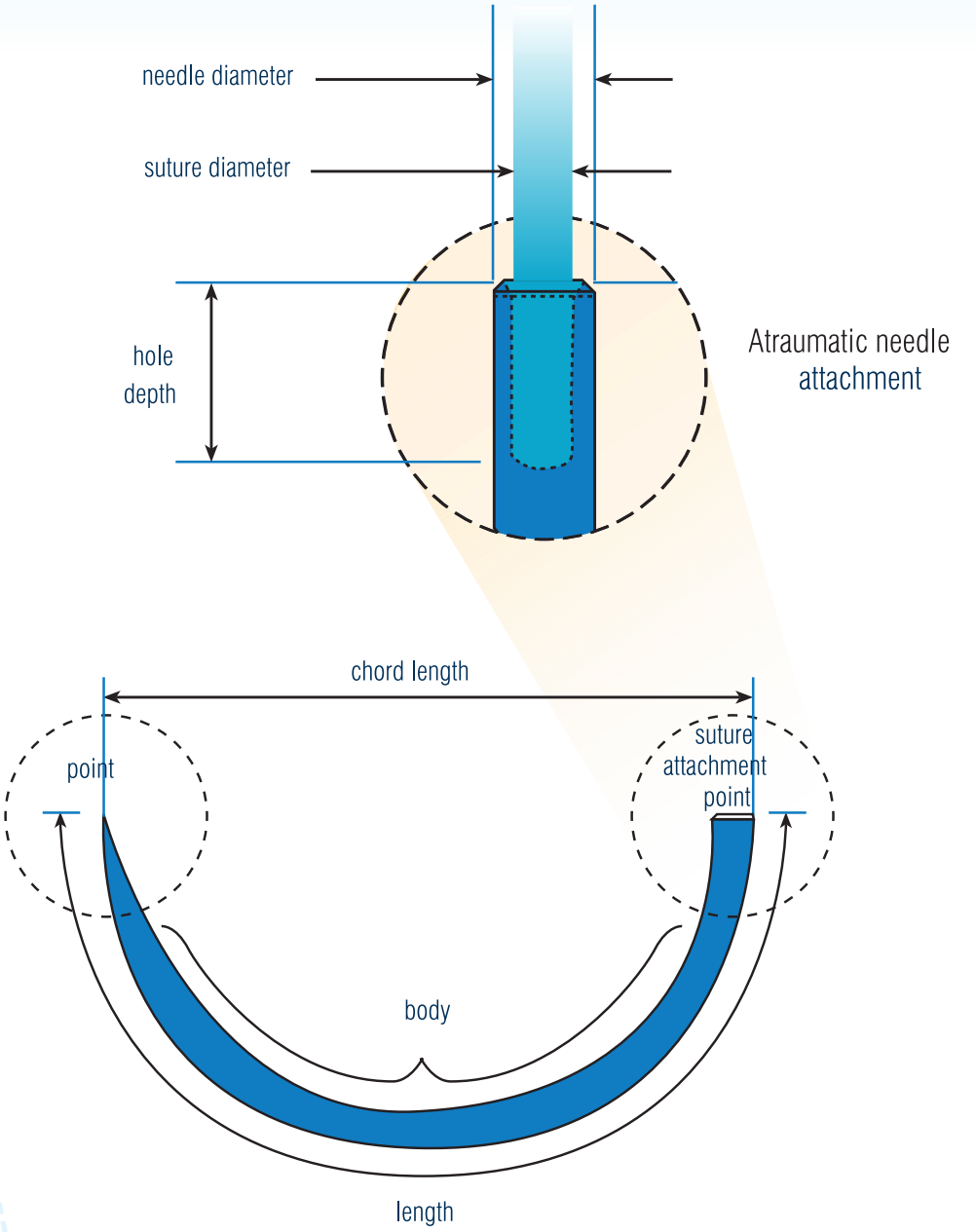

1
4 metric
75cm
R-40
1/2
36 mm
36 envelopes
POLYESTER
Green
SURGICAL SUTURE
Non-Absorbable
Coated Polyester/Braided
51-067
LOT 060445
2006-07
2010-07
STERILE EO
sterile indecator
VERTMED


2
6 metric
75cm
R-41
1/2
45mm
36 envelopes
CHROMIC
MUSTARD
SURGICAL SUTURE
Absorbable
Chromic Catgut
28-113
LOT 060445
2006-07
2010-07
STERILE R
sterile indecator
VERTMED

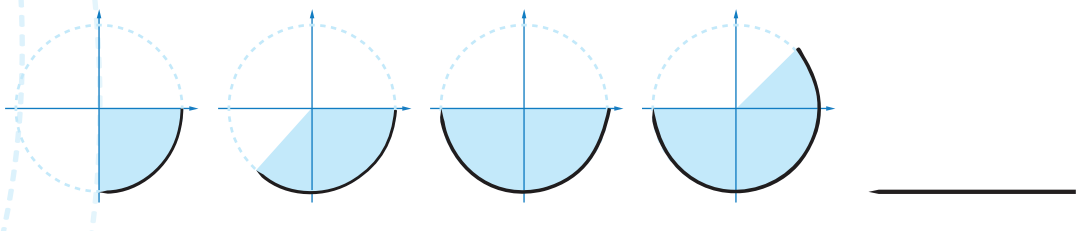

3/0
2 metric
75cm
R-24
3/8
19 mm
36 envelopes
SILK
BLACK
SURGICAL SUTURE
Non-Absorbable
Coated/Braided
42-045
LOT 060445
2006-07
2010-07
STERILE EO
sterile indecator
VERTMED

Atraumatic Needles

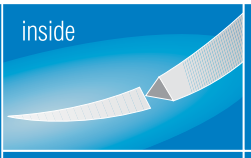
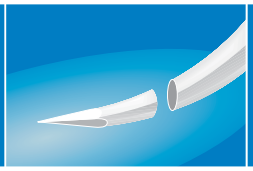
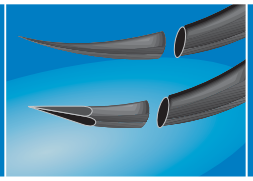
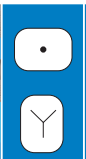
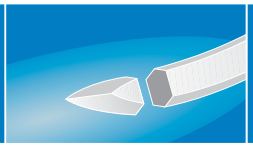
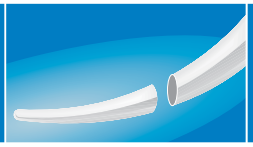
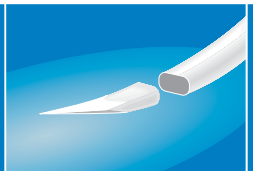
Structure of Atraumatic Needles



Needle Types According to Curvature



Atraumatic Needles

name	tip	body	symbol	description
round bodied				• The most popular and classic needle type. • Use in all soft tissue approximation including cardiovascular surgery.
cutting	inside 			• Edges are specially sharpened for an easy and smooth penetration. • Cutting edge is inside the needle. • Used in skin closures and in all applications requiring cutting needles.
	outside			• Edges are specially sharpened for an easy and smooth penetration. • Cutting edge is outside the needle. • Widely used in skin closures and especially in plastic surgery.
KD				• Specially designed for cardiovascular surgery for calcified vessels and tough fibrous tissues. • The body is pressed to square shape to increse resistance to bending. • Tip is specially sharpened for superior penetration.
black				• Used where better visibility and prevention of reflection of the needle is required (eg when blood concentration is high) . • Darkening of the metal is made by surface oxidation technique. • Widely used in cardiovascular surgery.
spatulated				• Both side edges and upper surface are cutting while the body is flattened. • Widely used in ophthalmic surgery.
blunt point				• The tip of the needle sharpness of round bodied is reduced. • Uses include repair of liver and sensitive friable tissues.
diamond				• For better penetration and less tissue trauma, tip of the needle is sharpened. • Widely used in cardiovascular/thoracic, orthopedic, obstetrics/gynecologic surgery and repairs of tendons and fibrous tissues.
PL				• Special geometry for easy penetration and high resistance to bending with a slim body. • Widely used in plastic and cosmetic surgery and skin closures.

Structure of Atraumatic Needles

1/ 2 Circle Taper Point

R-40

8 mm

10 mm

12 mm

13 mm

15 mm

16 mm

17 mm

18 mm

19 mm

20 mm

22 mm

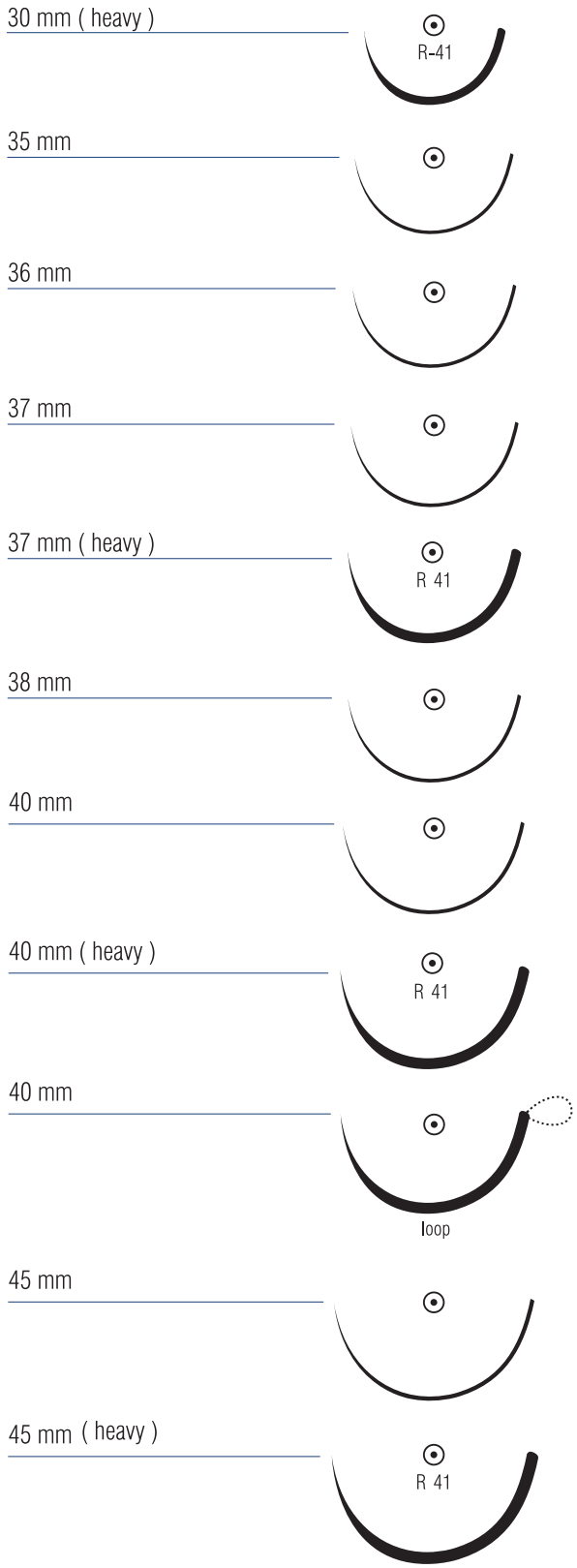
24 mm

25 mm

26 mm

27 mm

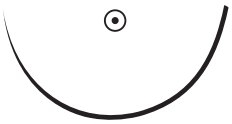
30 mm



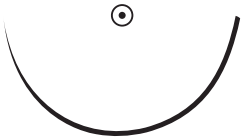
45 mm

loop

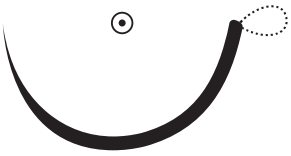
48 mm



50 mm



50 mm

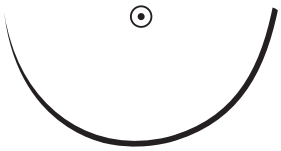


loop

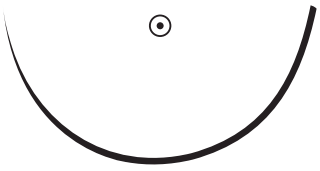
50 mm (heavy)

R 41

55 mm



60 mm



1/ 2 Circle Taper Point double

D-40

8 mm

10 mm

13 mm

15 mm

16 mm

17 mm

20 mm

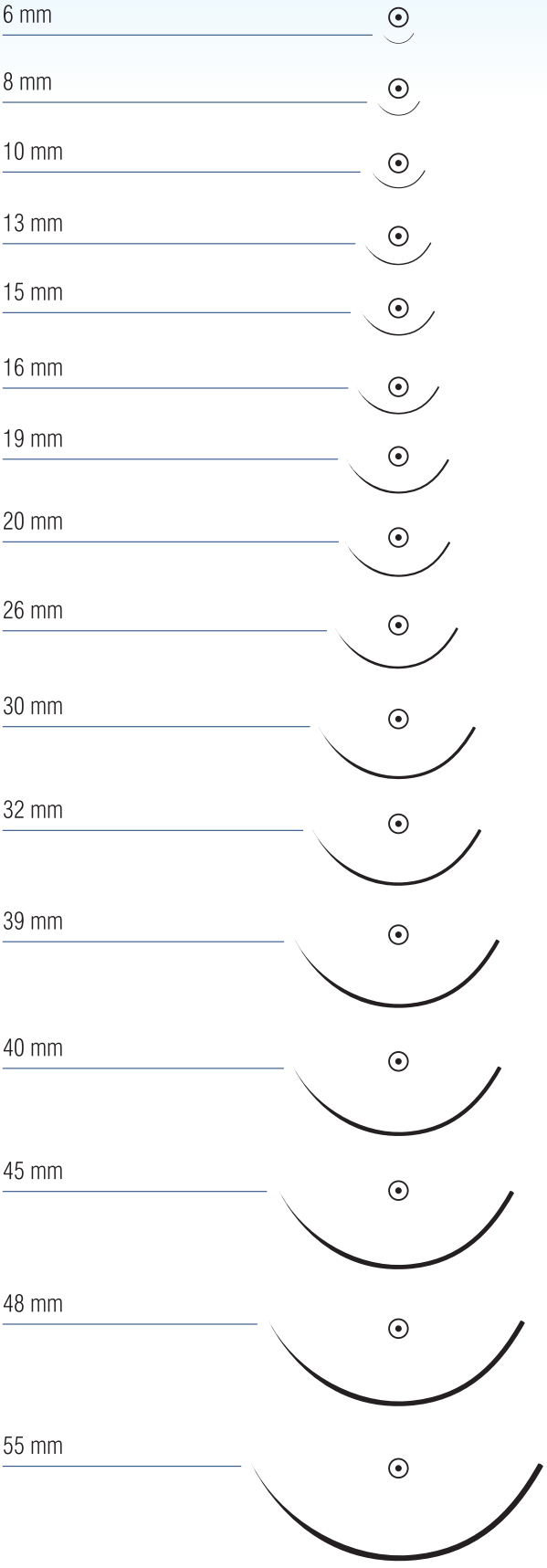
22 mm

24 mm

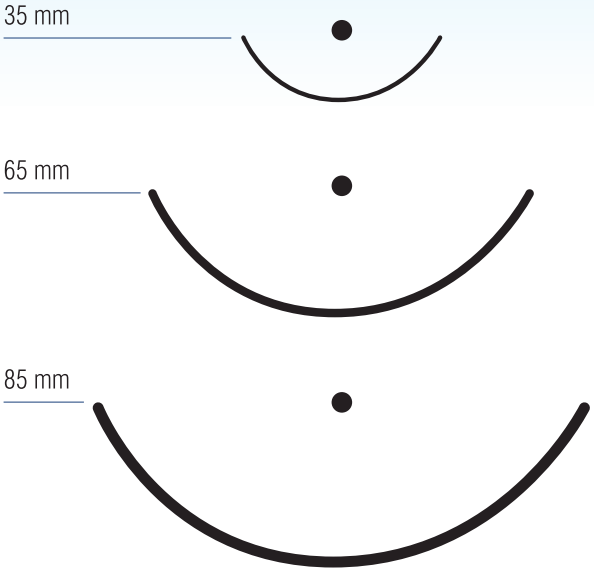
25 mm

30 mm

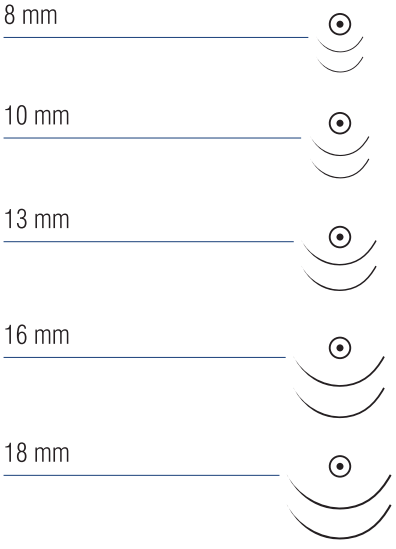
3/ 8 Circle Taper Point
R-20



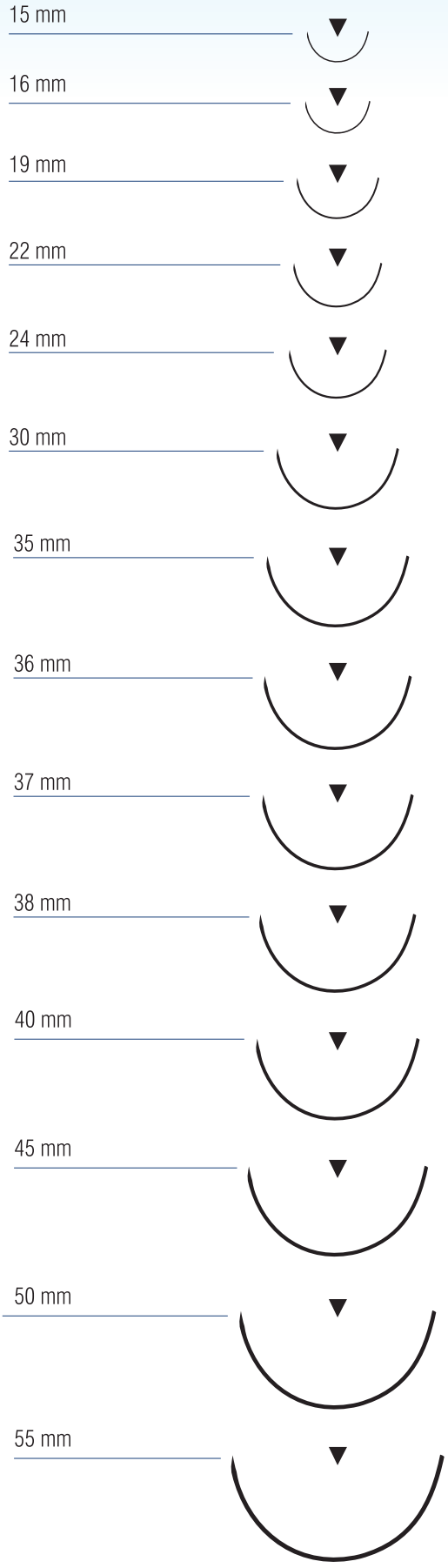
Blunt Point
R-48



3/ 8 Circle Taper Point double
D-20

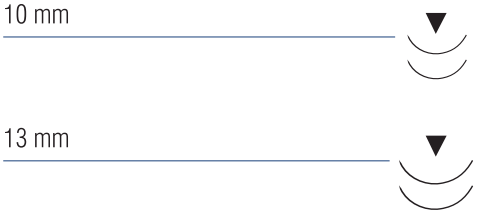


1/ 2 Circle Reverse Cutting
R-44

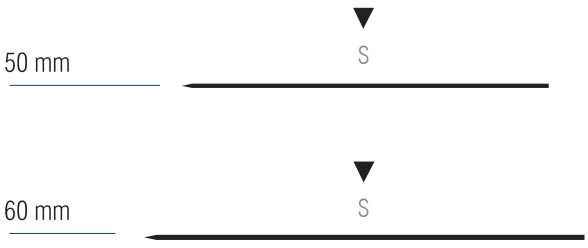


1/ 2 Circle Reverse Cutting double
D-44

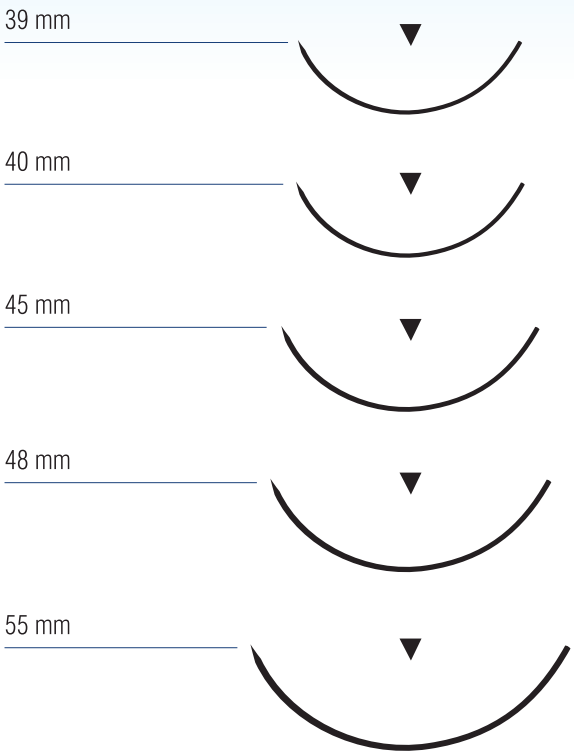
3/ 8 Circle Reverse Cutting double
D-24



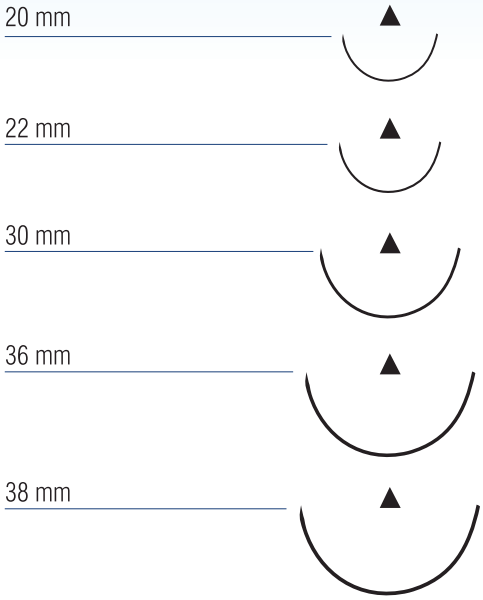
Straight Cutting



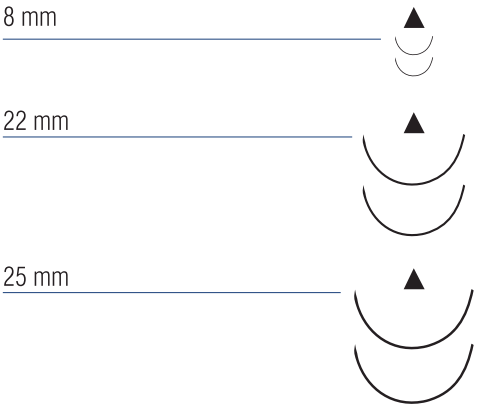
3/ 8 Circle Reverse Cutting
R-24



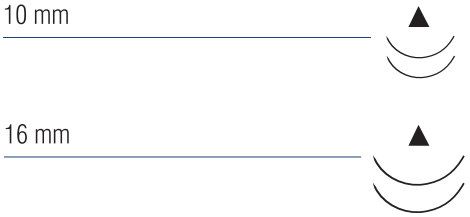
1/ 2 Circle Convetional Cutting
R-42



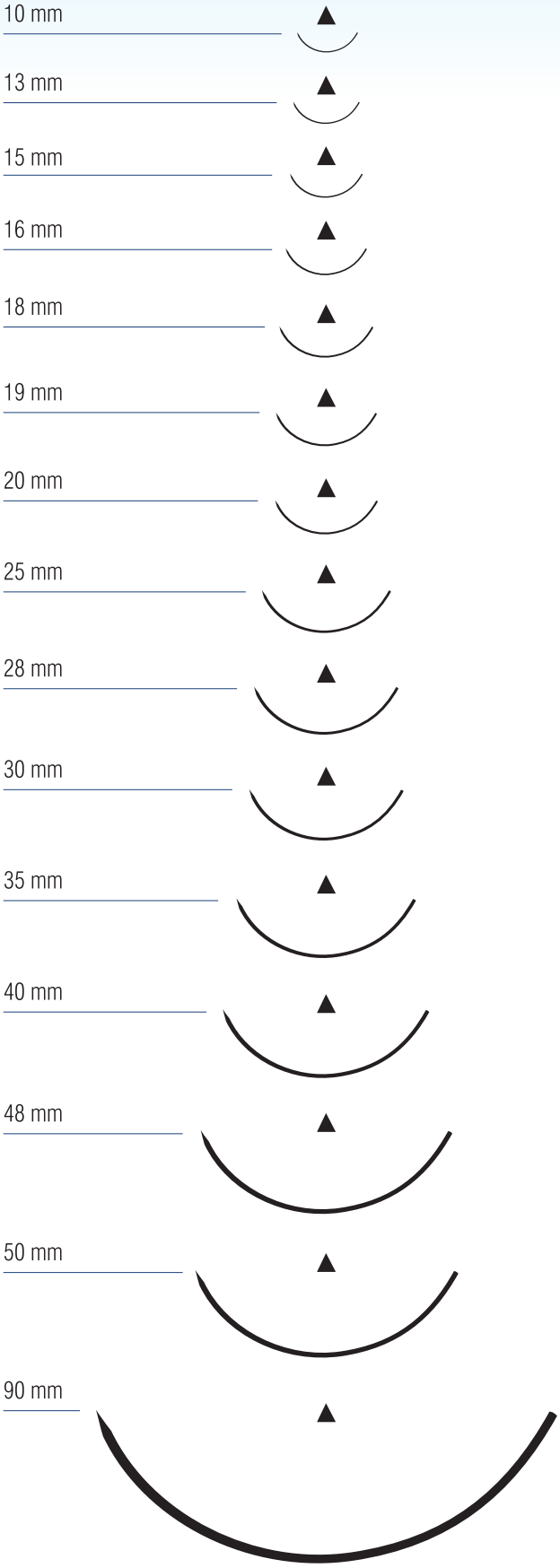
1/ 2 Circle Convetional Cutting Double
D-42



3/ 8 Circle Convetional Cutting Double
D-22



3/ 8 Circle Convetional Cutting
R-22



1/ 4 Circle Spatulated
R-17

8 mm

3/ 8 Circle Spatulated
R-27

6 mm

8 mm

13 mm

3/ 8 Circle Spatulla double
D-27

8 mm

6 mm

1/ 2 Circle Taper Cutting
R-46

16 mm

20 mm

25 mm

30 mm

35 mm

3/ 8 Circle Taper Cutting
R-26

8 mm

10 mm

13 mm

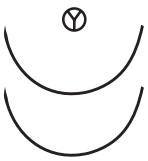
3/ 8 Circle Taper Cutting Double
D-26

13 mm

1/ 2 Circle Taper Cutting Double
D-46

16 mm

30 mm



Plain

Plain catgut absorbable sutures

Plain

Plain catgut absorbable sutures

Plain is an absorbable suture made by twisting together strands of purified collagen taken from bovine intestines. The natural plain thread is precision ground in order to achieve a monofilament character and treated with a glycerol containing solution. Plain is absorbed by enzymatic degradation.

Composition: Plain Catgut

Tensile strength: Strength retention for at least 21 days

Structure: Twisted

Origin: Bovine serosa surface finish

Type of Absorption: Enzymatic digestion complete by 70 days

Loos of Tensile Strength: 7 to 10 days

Thread color: Straw

Sterilization: Gama Radiation

Packing: Plain sutures are available in U.S.P sizes 3 (7 metric) through 6 - 0 (1 Metric). In one, two or three dozen boxes.

Advantages:

Very high knot-pull tensile strength
Good knot security due to special
Excellent handling features

Indications:

It is indicated for use in general approach of soft tissues and/or ligature.
Gastrintestinal, General Closure / Gynecology / Obstetrician, Urology, Skin Closure, Ophthalmology.

Contraindications:

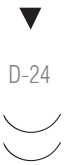
It is not recommended to be used in procedures where it is required a minimum tissue reaction.

Precautions:

Special precautions should be taken in patients with cancer, anemia and malnutrition conditions. They tend to absorb the sutures at a higher rate.
Cardiovascular surgery, due to the continued heart contractions.
It is absorbed much faster when used in the mouth and in the vagina, due to the presence of microorganisms.

Plain

Catgut

Needle description		Suture description			Code
		USP	Metric	length(cm)	
3 /8 circle spatula 8 mm		6 /0	1	75	33 -001
		5 /0	1.5	75	33 -002
		4 /0	2	75	33 -003
3 /8 circle spatula double 8 mm		4 /0	2	75	33 -004
3 /8 circle reverse cutting 10 mm		6 /0	1	75	32 -005
		5 /0	1.5	75	32 -006
3 /8 circle reverse cutting double 10 mm		6 /0	1	75	35 -007
		5 /0	1.5	75	35 -008
3 /8 circle conv. cutting 16 mm		5 /0	1.5	75	32 -009
		4 /0	2	75	32 -010
		3 /0	3	75	32 -011
3 /8 circle Taper point 16 mm		5 /0	1.5	75	31 -012
		4 /0	2	75	31 -013
		3 /0	3	75	31 -014

Needle description		Suture description			
		USP	Metric	length(cm)	Code
3 /8 circle conv. cutting double 16 mm		5 /0	1.5	75	35 -015
		4 /0	2	75	35 -016
		3 /0	3	75	35 -017
		2 /0	3.5	75	35 -018
1 /2 circle reverse cutting 16 mm		5 /0	1.5	75	32 -019
		4 /0	2	75	32 -020
		3 /0	3	75	32 -021
		2 /0	3.5	75	32 -022
1 /2 circle Taper point 20 mm		4 /0	2	75	31 -023
		3 /0	3	75	31 -024
		2 /0	3.5	75	31 -025
3 /8 circle reverse cutting 20 mm		4 /0	2	75	32 -026
		3 /0	3	75	32 -027
		2 /0	3.5	75	32 -028

Plain

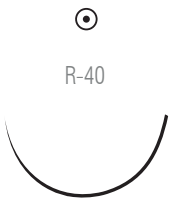
Catgut

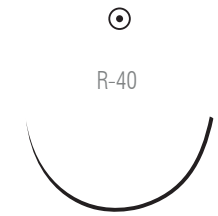
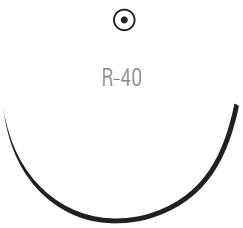
Needle description		Suture description			Code
		USP	Metric	length(cm)	
3 /8 circle Taper point 20 mm		4 /0	2	75	31 -029
		3 /0	3	75	31 -030
		2 /0	3.5	75	31 -031
3 /8 circle reverse cutting 22 mm		3 /0	3	75	32 -032
		2 /0	3.5	75	32 -033
		0	4	75	32 -034
		1	5	75	32 -035
1 /2 circle conv. cutting 22 mm		3 /0	3	75	32 -036
		2 /0	3.5	75	32 -037
		0	4	75	32 -038
		1	5	75	32 -039
1 /2 circle Taper point 26 mm		3 /0	3	75	31 -040
		2 /0	3.5	75	31 -041
		0	4	75	31 -042
		1	5	75	31 -043

Needle description	Suture description			
	USP	Metric	length(cm)	Code
1 /2 circle Taper cutting 26 mm R-46	3 /0	3	75	37 -044
	2 /0	3.5	75	37 -045
	0	4	75	37 -046
	1	5	75	37 -047
1 /2 circle Taper point 30 mm R-40	3 /0	3	75	31 -048
	2 /0	3.5	75	31 -049
	0	4	75	31 -050
	1	5	75	31 -051
1 /2 circle reverse cutting 30 mm R-44	3 /0	3	75	32 -052
	2 /0	3.5	75	32 -053
	0	4	75	32 -054
	1	5	75	32 -055
	2	6	75	32 -056

Plain

Catgut

Needle description	Suture description			Code
	USP	Metric	length(cm)	
1 /2 circle Taper point 35 mm  	3 /0	3	75	31 -057
	2 /0	3.5	75	31 -058
	0	4	75	31 -059
	1	5	75	31 -060
	2	6	75	31 -061
1 /2 circle reverse cutting 35 mm 	3 /0	3	75	32 -062
	2 /0	3.5	75	32 -063
	0	4	75	32 -064
	1	5	75	32 -065
	2	6	75	32 -066
1 /2 circle reverse cutting 38 mm 	2 /0	3.5	75	32 -071
	0	4	75	32 -072
	1	5	75	32 -073
	2	6	75	32 -074

Needle description	Suture description			
	USP	Metric	length(cm)	Code
1 /2 circle Taper point 40 mm  	2 /0	3.5	75	31 -067
	0	4	75	31 -068
	1	5	75	31 -069
	2	6	75	31 -070
1 /2 circle Taper point 50 mm  	0	4	75	31 -075
	1	5	75	31 -076
	2	6	75	31 -077
Without needle LIG	4 /0	2	75	30 -078
	3 /0	3	75	30 -079
	2 /0	3.5	75	30 -080
	0	4	75	30 -081
	1	5	75	30 -082
	2	6	75	30 -083
	3	7	75	30 -084

Plain

Catgut

Needle description	Suture description			Code
	USP	Metric	length(cm)	
Without needle LIG	4 /0	2	150	30 -092
	3 /0	3	150	30 -093
	2 /0	3.5	150	30 -094
	0	4	150	30 -095
	1	5	150	30 -096
	2	6	150	30 -097
	3	7	150	30 -098

Chromic

Chromic catgut absorbable sutures

Chromic

Chromic catgut absorbable sutures

Chromic is an absorbable suture made by twisting together strands of purified collagen taken from bovine intestines. Due to undergoing a ribbon stage chromicisation, the Chromic offers roughly twice the stitch holding time of plain catgut. The natural chromic thread is precision ground in order to achieve a monofilament character and treated with a glycerol containing solution. Chromic is absorbed by enzymatic degradation.

Composition: Natural purified collagen

Treatment: Treatment with chromic salt to delay its absorption.

Structure: Twisted

Origin: Bovine serosa

Type of Absorption: Enzymatic digestion complete in 70 days

Loos of Tensile Strength: 7 to 21 days

Thread color: Mustard

Sterilization: Gama Radiation

Packing: Chromic sutures are available in U.S.P sizes 3 (7 metric) through 6 - 0 (1 Metric). In one, two or three dozen boxes.

Advantages

Very high knot-pull tensile strength
Good knot security due to special surface finish
Improved smoothness due to the dry presentation of the thread
Excellent handling features

Indications

It is indicated for use in general approach of soft tissues and/or ligature.
Gastrintestinal, General Closure / Gynecology / Obstetrician, Urology, Skin Closure, Ophthalmology.

Contraindications

It is not recommended to be used in procedures where it is required a minimum tissue reaction.

Precautions

It is absorbed much faster when used in the mouth and in the vagina, due to the presence of microorganism.
Cardiovascular surgery, due to the continued heart contractions.
Special precautions should be taken in patients with cancer, anemia and malnutrition conditions. They tend to absorb this suture at a higher rate.

Chromic
Catgut

Needle description		Suture description			
		USP	Metric	length(cm)	Code
3 /8 circle spatula 8 mm		6 /0	1	45	23 -001
		5 /0	1.5	45	23 -002
		4 /0	2	45	23 -003
3 /8 circle reverse cutting 10 mm		6 /0	1	45	22 -004
		5 /0	1.5	45	22 -005
		4 /0	2	45	22 -006
3 /8 circle Taper point 10 mm		6 /0	1	45	21 -007
		5 /0	1.5	45	21 -008
		4 /0	2	45	21 -009
3 /8 circle conv. cutting 12 mm		5 /0	1.5	45	22 -010
		4 /0	2	45	22 -011
3 /8 circle Taper point 13 mm		5 /0	1.5	75	21 -012
		4 /0	2	75	21 -013
3 /8 circle Taper point 15 mm		5 /0	1.5	75	21 -014
		4 /0	2	75	21 -015
		3 /0	3	75	21 -016

Chromic

Catgut

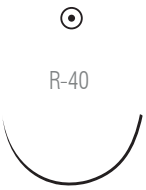
Needle description		Suture description			Code
		USP	Metric	length(cm)	
3 /8 circle Taper point 16 mm		5 /0	1.5	75	21 -017
		4 /0	2	75	21 -018
		3 /0	3	75	21 -019
3 /8 circle conv. cutting 16 mm		5 /0	1.5	75	22 -020
		4 /0	2	75	22 -021
		3 /0	3	75	22 -022
3 /8 circle reverse cutting 16 mm		5 /0	1.5	75	22 -023
		4 /0	2	75	22 -024
		3 /0	3	75	22 -025
1 /2 circle Taper point 18 mm		5 /0	1.5	75	21 -026
		4 /0	2	75	21 -027
		3 /0	3	75	21 -028
1 /2 circle Taper point 20 mm		5 /0	1.5	75	21 -161
		4 /0	2	75	21 -029
		3 /0	3	75	21 -030
		2 /0	3.5	75	21 -031

Chromic
Catgut

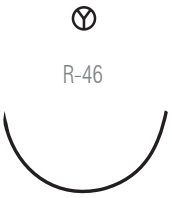
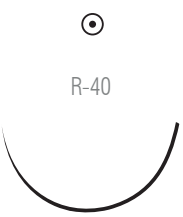
Needle description	Suture description			
	USP	Metric	length(cm)	Code
3 /8 circle reverse cutting 20 mm R-24	4 /0	2	75	22 -032
	3 /0	3	75	22 -033
	2 /0	3.5	75	22 -034
1 /2 circle Taper point 22 mm R-40	4 /0	2	75	21 -035
	3 /0	3	75	21 -036
	2 /0	3.5	75	21 -037
	0	4	75	21 -038
	1	5	75	21 -039
1 /2 circle conv. cutting 22 mm R-42	4 /0	2	75	22 -040
	3 /0	3	75	22 -041
	2 /0	3.5	75	22 -042
	0	4	75	22 -043
	1	5	75	22 -044

Chromic

Catgut

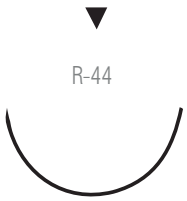
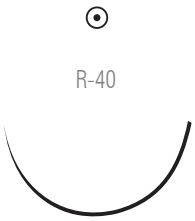
Needle description		Suture description			Code
		USP	Metric	length(cm)	
1 /2 circle Taper point 25 mm		4 /0	2	75	21 -045
		3 /0	3	75	21 -046
		2 /0	3.5	75	21 -047
		0	4	75	21 -048
		1	5	75	21 -049
3 /8 circle reverse cutting 25 mm		4 /0	2	75	22 -050
		3 /0	3	75	22 -051
		2 /0	3.5	75	22 -052
		0	4	75	22 -053
		1	5	75	22 -054
1 /2 circle Taper point 30 mm		3 /0	3	75	21 -055
		2 /0	3.5	75	21 -056
		0	4	75	21 -057
		1	5	75	21 -058

Chromic
Catgut

Needle description	Suture description			
	USP	Metric	length(cm)	Code
1 /2 circle Taper point (heavy) 30 mm R-41	3 /0	3	75	28 -059
	2 /0	3.5	75	28 -060
	0	4	75	28 -061
	1	5	75	28 -062
3 /8 circle Taper point 30 mm R-20	3 /0	3	75	21 -063
	2 /0	3.5	75	21 -064
	0	4	75	21 -065
	1	5	75	21 -066
1 /2 circle Taper cutting 35 mm  R-46	3 /0	3	75	27 -067
	2 /0	3.5	75	27 -068
	0	4	75	27 -069
	1	5	75	27 -070
1 /2 circle Taper point 38 mm  R-40	3 /0	3	75	21 -071
	2 /0	3.5	75	21 -072
	0	4	75	21 -073
	1	5	75	21 -074

Chromic

Catgut

Needle description	Suture description			Code
	USP	Metric	length(cm)	
1 /2 circle reverse cutting 38 mm  	3 /0	3	75	22 -075
	2 /0	3.5	75	22 -076
	0	4	75	22 -077
	1	5	75	22 -078
1 /2 circle conv. cutting 38 mm 	3 /0	3	75	22 -079
	2 /0	3.5	75	22 -080
	0	4	75	22 -081
	1	5	75	22 -082
1 /2 circle Taper point 40 mm  	2 /0	3.5	75	21 -083
	0	4	75	21 -084
	1	5	75	21 -085
	2	6	75	21 -086
1 /2 circle reverse cutting 40 mm 	2 /0	3.5	75	22 -087
	0	4	75	22 -088
	1	5	75	22 -089
	2	6	75	22 -090

Chromic
Catgut

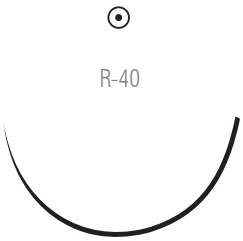
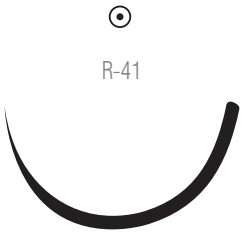
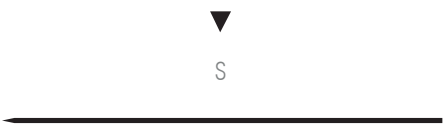
Needle description	Suture description			
	USP	Metric	length(cm)	Code
3 /8 circle Taper point 40 mm R-20	2 /0	3.5	75	21 -091
	0	4	75	21 -092
	1	5	75	21 -093
	2	6	75	21 -094
1 /2 circle Taper point (heavy) 40 mm R-41	3 /0	3	75	28 -095
	2 /0	3.5	75	28 -096
	0	4	75	28 -097
	1	5	75	28 -098
	2	6	75	28 -099
1 /2 circle Taper point 45 mm R-40	3 /0	3	75	21 -100
	2 /0	3.5	75	21 -101
	0	4	75	21 -102
	1	5	75	21 -103
	2	6	75	21 -104

Chromic

Catgut

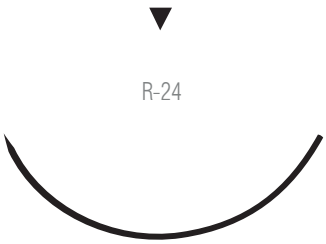
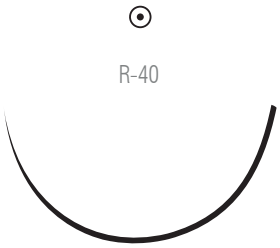
Needle description	Suture description			Code
	USP	Metric	length(cm)	
3 /8 circle Taper point 45 mm R-20	3 /0	3	75	21 -105
	2 /0	3.5	75	21 -106
	0	4	75	21 -107
	1	5	75	21 -108
	2	6	75	21 -109
1 /2 circle Taper point (heavy) 45 mm R-41	2 /0	3.5	75	28 -110
	0	4	75	28 -111
	1	5	75	28 -112
	2	6	75	28 -113
3 /8 circle reverse cutting 48 mm R-24	2 /0	3.5	75	22 -114
	0	4	75	22 -115
	1	5	75	22 -116
	2	6	75	22 -117

Chromic
Catgut

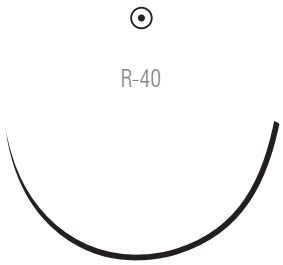
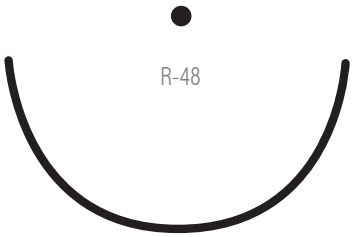
Needle description	Suture description			
	USP	Metric	length(cm)	Code
3 /8 circle Taper point 48 mm 	2 /0	3.5	75	21 -118
	0	4	75	21 -119
	1	5	75	21 -120
	2	6	75	21 -121
1 /2 circle Taper point 50 mm  	2 /0	3.5	75	21 -122
	0	4	75	21 -123
	1	5	75	21 -124
	2	6	75	21 -125
1 /2 circle Taper point (heavy) 50 mm  	2 /0	3.5	75	28 -126
	0	4	75	28 -127
	1	5	75	28 -128
	2	6	75	28 -129
Straight cutting 60 mm  	2 /0	3.5	75	26 -130
	0	4	75	26 -131
	1	5	75	26 -132
	2	6	75	26 -133

Chromic

Catgut

Needle description		Suture description			
		USP	Metric	length(cm)	Code
3 /8 circle Taper point 55 mm		2 /0	3.5	75	21 -134
		0	4	75	21 -135
		1	5	75	21 -136
		2	6	75	21 -137
3 /8 circle reverse cutting 55 mm		2 /0	3.5	75	22 -138
		0	4	75	22 -139
		1	5	75	22 -140
		2	6	75	22 -141
1 /2 circle Taper point 55 mm		2 /0	3.5	75	21 -142
		0	4	75	21 -143
		1	5	75	21 -144
		2	6	75	21 -145
1 /2 circle reverse cutting 55 mm		2 /0	3.5	75	22 -146
		0	4	75	22 -147
		1	5	75	22 -148
		2	6	75	22 -149

Chromic
Catgut

Needle description	Suture description			
	USP	Metric	length(cm)	Code
1 /2 circle Taper point 60 mm  	2 /0	3.5	75	21 -150
	0	4	75	21 -151
	1	5	75	21 -152
	2	6	75	21 -153
1 /2 circle Taper point (blunt) 65 mm  	2 /0	3.5	75	29 -154
	0	4	75	29 -155
	1	5	75	29 -156
	2	6	75	29 -157
1 /2 circle Taper point (blunt) 85 mm 	2 /0	3.5	75	29 -160
	0	4	75	29 -161
	1	5	75	29 -162
	2	6	75	29 -163

Chromic

Catgut

Needle description	Suture description			Code
	USP	Metric	length(cm)	
Without needle LIG	4 /0	2	150	20 -164
	3 /0	3	150	20 -165
	2 /0	3.5	150	20 -166
	0	4	150	20 -167
	1	5	150	20 -168
	2	6	150	20 -169

Vertcryl®

Coated Braided PolyGlycolic Acid absorbable sutures

Vertcryl®

Coated Braided PolyGlycolic Acid absorbable sutures

Braided synthetic absorbable sutures made of polymers of polyglycolic acid and coated with Polycaprolacton and Calcium Stearate, non collagen and biocompatible

Composition: Polyglycolic Acid

Coating: Coated with Polycaprolacton and Calcium Stearate

Structure: Braided

Origin: Synthetic

Type of Absorption: Absorption by hydrolysis complete between 60 & 90 days.
Always predictable and reliable

Loss Of Tensile Strength: 80 ٪ at two weeks and in excess of 30٪ at three weeks post-implant

Thread color: Violet or Undyed-Beige

Sterilization: Ethylene Oxide (EO).

Packing: PGA sutures are available in U.S.P sizes 2(5 metric) through 8 - 0 (0.4 Metric). And in one, two or three dozen boxes .

Advantages:

High initial tensile strength
Guaranteed holding power through the critical wound healing period
Smooth passage through tissue
Easy handling
Excellent knotting ability
Secure knot tying

Indication:

It is indicated for use in soft tissue approximation or ligation and ophthalmic surgery, but not in cardiovascular or neural tissue.
Gastrintestinal, General Closure / Gynecology / Obstetrician, Urology, Skin Closure, Ophthalmology, Orthopedic

Contraindication:

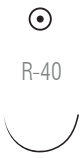
It is contraindicated when extensive approach of the tissue should be maintained (Under tension), and where there is the lingering contact with saline solution.

Precautions

Special precautions should be taken in elderly patients and patients with history of anemia and malnutrition conditions.
As with any suture material, adequate knot security requires the accepted surgical technique of flat and square ties.

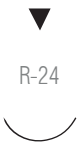
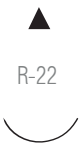
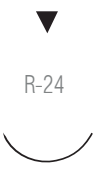
Vertcryl®

Coated Braided PolyGlycolic Acid absorable sutures

Needle description		Suture description			
		USP	Metric	length(cm)	Code
1 /2 circle Taper Point 8 mm		8 /0	0.4	45	11 -001
		7 /0	0.5	45	11 -002
		6 /0	0.7	45	11 -003
		5 /0	1	45	11 -004
1 /2 circle conv. Cutting double 8 mm		7 /0	0.5	45	15 -005
		6 /0	0.7	45	15 -006
		5 /0	1	45	15 -007
3 /8 circle spatula double 8 mm		8 /0	0.4	45	13 -008
		7 /0	0.5	45	13 -009
		6 /0	0.7	45	13 -010
		5 /0	1	45	13 -011
3 /8 circle conv. Cutting double 10 mm		6 /0	0.7	45	15 -012
		5 /0	1	45	15 -013
		4 /0	1.5	45	15 -014

Vertcryl®

Coated Braided PolyGlycolic Acid absorable sutures

Needle description		Suture description			Code
		USP	Metric	length(cm)	
3 /8 circle reverse cutting 12 mm		6 /0	0.7	45	12 -015
		5 /0	1	45	12 -016
		4 /0	1.5	75	12 -017
1 /2 circle Taper point 13 mm		5 /0	1	45	11 -018
		4 /0	1.5	75	11 -019
		3 /0	2	75	11 -020
3 /8 circle conv.cutting 13 mm		6 /0	0.7	75	12 -125
		5 /0	1	45	12 -021
		4 /0	1.5	45	12 -022
1 /2 circle Taper point 13 mm		6 /0	0.7	75	11 -111
		5 /0	1	75	11 -112
1 /2 circle Taper point (heavy) 13 mm		3 /0	2	75	18 -024
		2 /0	3	75	18 -025
3 /8 circle reverse cutting 16 mm		5 /0	1	75	12 -026
		4 /0	1.5	75	12 -027
		3 /0	2	75	12 -028

Vertcryl®

Coated Braided PolyGlycolic Acid absorable sutures

Needle description		Suture description			
		USP	Metric	length(cm)	Code
1 /2 circle Taper point 16 mm		5 /0	1	75	11 -029
		4 /0	1.2	75	11 -030
		3 /0	2	75	11 -031
1 /2 circle Taper point 17 mm		5 /0	1	75	11 -113
		4 /0	1.5	75	11 -032
		3 /0	2	75	11 -033
3 /8 circle reverse cutting 19 mm		5 /0	1	75	12 -130
		4 /0	1.5	75	12 -034
		3 /0	2	75	12 -035
1 /2 circle Taper point 20 mm		5 /0	1	75	11 -114
		4 /0	1.5	75	11 -115
		3 /0	2	75	11 -116
		2 /0	3	75	11 -149
1 /2 circle Taper point 22 mm		4 /0	1.5	75	11 -036
		3 /0	2	75	11 -037
		2 /0	3	75	11 -038

Vertcryl®

Coated Braided PolyGlycolic Acid absorable sutures

Needle description		Suture description			
		USP	Metric	length(cm)	Code
1 /2 circle reverse cutting 22 mm		4 /0	1.5	75	12 -039
		3 /0	2	75	12 -040
		2 /0	3	75	12 -041
3 /8 circle reverse cutting 22 mm		4 /0	1.5	75	12 -131
		3 /0	2	75	12 -132
		2 /0	3	75	12 -133
3 /8 circle reverse cutting 24 mm		4 /0	1.5	75	12 -042
		3 /0	2	75	12 -043
		2 /0	3	75	12 -044
1 /2 circle Taper point 26 mm		4 /0	1.5	75	11 -117
		3 /0	2	75	11 -045
		2 /0	3	75	11 -046
		0	3.5	75	11 -047

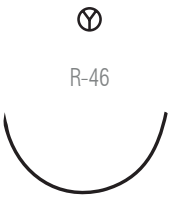
Vertcryl®

Coated Braided PolyGlycolic Acid absorable sutures

Needle description		Suture description			
		USP	Metric	length(cm)	Code
3 /8 circle reverse cutting 26 mm		4 /0	1.5	75	12 -127
		3 /0	2	75	12 -048
		2 /0	3	75	12 -049
		0	3.5	75	12 -050
1 /2 circle reverse cutting 26 mm		4 /0	1.5	75	12 -128
		3 /0	2	75	12 -129
		2 /0	3	75	12 -138
		0	3.5	75	12 -147
1 /2 circle Taper point 27 mm		3 /0	2	75	11 -118
		2 /0	3	75	11 -119
		0	3.5	75	11 -120
1 /2 circle Taper point 30 mm		3 /0	2	75	11 -051
		2 /0	3	75	11 -052
		0	3.5	75	11 -053
		1	4	75	11 -054

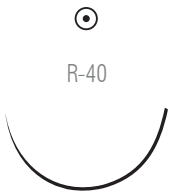
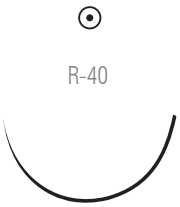
Vertcryl®

Coated Braided PolyGlycolic Acid absorable sutures

Needle description		Suture description			
		USP	Metric	length(cm)	Code
3 /8 circle reverse cutting 30 mm		2 /0	3	75	12 -090
		0	3.5	75	12 -137
3 /8 circle Taper point 32 mm		3 /0	2	75	11 -061
		2 /0	3	75	11 -062
		0	3.5	75	11 -151
1 /2 circle Taper cutting 35 mm		3 /0	2	75	17 -055
		2 /0	3	75	17 -056
		0	3.5	75	17 -057
		1	4	75	17 -058
3 /8 circle reverse cutting 35 mm		3 /0	2	75	12 -065
		2 /0	3	75	12 -066
		0	3.5	75	12 -067
		1	4	75	12 -068

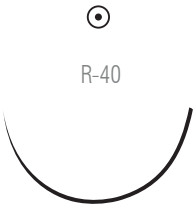
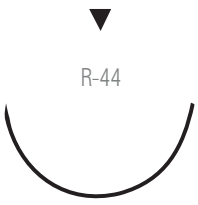
Vertcryl®

Coated Braided PolyGlycolic Acid absorable sutures

Needle description		Suture description			
		USP	Metric	length(cm)	Code
1 /2 circle Taper point 35 mm		3 /0	2	75	11 -121
		2 /0	3	75	11 -122
		0	3.5	75	11 -123
		1	4	75	11 -124
1 /2 circle Taper point 37 mm		3 /0	2	75	11 -069
		2 /0	3	75	11 -070
		0	3.5	75	11 -071
		1	4	75	11 -072
1 /2 circle Taper point (heavy) 37 mm		0	3.5	75	18 -073
		1	4	75	18 -074
		2	5	75	18 -075
1 /2 circle reverse cutting 37 mm		2 /0	3	75	12 -076
		0	3.5	75	12 -077
		1	4	75	12 -078
		2	5	75	12 -148

Vertcryl®

Coated Braided PolyGlycolic Acid absorable sutures

Needle description		Suture description			
		USP	Metric	length(cm)	Code
3 /8 circle reverse cutting 37 mm		2 /0	3	75	12 -139
		0	3.5	75	12 -140
		1	4	75	12 -141
		2	5	75	12 -149
3 /8 circle reverse cutting 39 mm		2 /0	3	75	12 -080
		0	3.5	75	12 -142
		1	4	75	12 -143
		2	5	75	12 -150
1 /2 circle Taper point 40 mm		2 /0	3	75	11 -081
		0	3.5	75	11 -082
		1	4	75	11 -083
		2	5	75	11 -084
1 /2 circle reverse cutting 40 mm		0	3	75	12 -085
		1	4	75	12 -086
		2	5	75	12 -087

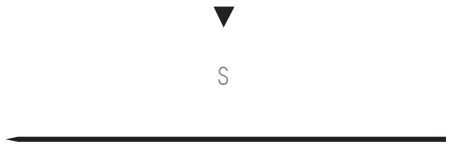
Vertcryl®

Coated Braided PolyGlycolic Acid absorable sutures

Needle description		Suture description			
		USP	Metric	length(cm)	Code
1 /2 circle Taper point (heavy) 45 mm	⊙ R-41	0	3.5	75	18 -091
		1	4	75	18 -092
		2	5	75	18 -093
3 /8 circle reverse cutting 45 mm	▼ R-24	0	3.5	75	12 -144
		1	4	75	12 -145
		2	5	75	12 -146
1 /2 circle Taper point 48 mm	⊙ R-40	0	3	75	11 -094
		1	3.5	75	11 -095
		2	3.5	75	11 -096
1 /2 circle Taper point 50 mm	⊙ R-40	0	3.5	75	11 -097
		1	4	75	11 -098
		2	5	75	11 -099
1 /2 circle reverse cutting 50 mm	▼ R-44	0	3.5	75	12 -100
		1	4	75	12 -101
		2	5	75	12 -102

Vertcryl®

Coated Braided PolyGlycolic Acid absorable sutures

Needle description	Suture description			
	USP	Metric	length(cm)	Code
straight cutting 60 mm  	4 /0	1.5	75	16 -088
	3 /0	2	75	16 -103
	2 /0	3	75	16 -104
Without needle LIG	4 /0	1.5	150	10 -105
	3 /0	2	150	10 -106
	2 /0	3	150	10 -107
	0	3.5	150	10 -108
	1	4	150	10 -109
	2	5	150	10 -110

PDV®

Monofilament Polydioxanon Synthetic absorbable sutures

PDV®

Monofilament Polydioxanon Synthetic absorbable sutures

Monofilament, synthetic, absorbable sutures made of Poly (p-dioxanon), non collagen and biocompatible

Composition: Poly (p-dioxanon)

Coating: Uncoated

Structure: Monofilament

Origin: Synthetic

Type of Absorption: Absorption by hydrolysis complete Around 180 days.
Always predictable and reliable

Loss Of Tensile Strength: 74 ٪ at two weeks and in excess of 40٪ at 60 days post-implant

Thread color: Violet or Undyed-Beige

Sterilization: Ethylene Oxide (EO).

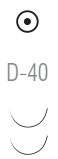
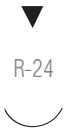
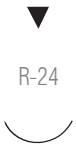
Packing: Polydioxanon sutures are available in U.S.P sizes 3(6 metric) through 8 - 0 (0.4 Metric). And in one, two or three dozen boxes.

Advantages:
High initial tensile strength
Guaranteed holding power through the critical wound healing period
Smooth passage through tissue
Easy handling
Excellent knotting ability
Secure knot tying

Indication:
It is indicated for use in soft tissue approximation or ligation and ophthalmic surgery, Gastrointestinal, General Closure / Gynecology / Obstetrician, Urology, Skin Closure, Orthopedic, cardiovascular

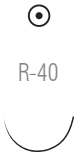
Contraindication:
It is contraindicated when extensive approach of the tissue should be maintained (Under tension), and where there is the lingering contact with saline solution.

Precautions:
Special precautions should be taken in elderly patients and patients with history of anemia and malnutrition conditions.
As with any suture material, adequate knot security requires the accepted surgical technique of flat and square ties.

Needle description		Suture description			
		USP	Metric	length(cm)	Code
3 /8 circle spatula double 6.5 mm		8 /0	0.4	45	83 -001
		7 /0	0.5	45	83 -002
1 /2 circle Taper point 8 mm		8 /0	0.4	45	81 -003
		7 /0	0.5	45	81 -004
		6 /0	0.7	45	81 -005
3 /8 circle spatula double 8 mm		6 /0	0.7	45	83 -009
		5 /0	1	45	83 -141
1 /2 circle Taper point double 8 mm		6 /0	0.7	90	81 -010
		5 /0	1	90	81 -011
3 /8 circle reverse cutting 10 mm		6 /0	0.7	75	82 -012
		5 /0	1	75	82 -013
3 /8 circle reverse cutting 12 mm		6 /0	0.7	75	82 -014
		5 /0	1	75	82 -015
		4 /0	1.5	75	82 -016
1 /2 circle Taper point 13 mm		6 /0	0.7	75	81 -038
		5 /0	1	75	81 -039

PDV®

Monofilament Polydioxanon Synthetic Absorbable sutures

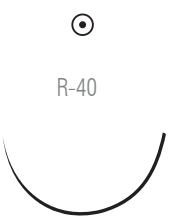
Needle description		Suture description			Code
		USP	Metric	length(cm)	
1 /2 circle Taper point 15 mm		5 /0	1	75	81 -017
		4 /0	1.5	75	81 -018
		3 /0	2	75	81 -019
1 /2 circle reverse cutting double 16 mm		8 /0	0.4	45	85 -006
		7 /0	0.5	45	85 -007
		6 /0	0.7	45	85 -008
3 /8 circle reverse cutting 16 mm		5 /0	1	75	82 -021
		4 /0	1.5	75	82 -022
		3 /0	2	75	82 -023
1 /2 circle reverse cutting 16 mm		6 /0	0.7	75	82 -025
		5 /0	1	75	82 -026
		4 /0	1.5	75	82 -030
3 /8 circle Taper point 16 mm		5 /0	1	75	81 -027
		4 /0	1.5	75	81 -028
		3 /0	2	75	81 -029

Needle description		Suture description			
		USP	Metric	length(cm)	Code
1 /2 circle Taper point 18 mm	 R-40	5 /0	1	75	81 -032
		4 /0	1.5	75	81 -020
		3 /0	2	75	81 -033
		2 /0	3	75	81 -034
3 /8 circle reverse cutting 19 mm	 R-24	4 /0	1.5	75	82 -035
		3 /0	2	75	82 -036
		2 /0	3	75	82 -037
1 /2 circle Taper point 20 mm	 R-40	4 /0	1.5	75	81 -040
		3 /0	2	75	81 -042
		2 /0	3	75	81 -043
		0	3.5	75	81 -044
1 /2 circle Taper point 22 mm	 R-40	4 /0	1.5	75	81 -047
		3 /0	2	75	81 -048
		2 /0	3	75	81 -049

PDV®

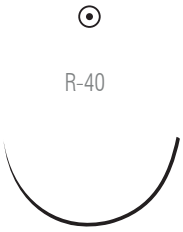
Monofilament Polydioxanon Synthetic Absorbable sutures

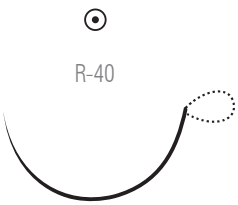
Needle description		Suture description			Code
		USP	Metric	length(cm)	
3 /8 circle reverse cutting 24 mm		3 /0	2	75	82 -050
		2 /0	3	75	82 -051
		0	3.5	75	82 -052
		1	4	75	82 -053
1 /2 circle reverse cutting 24 mm		3 /0	2	75	82 -045
		2 /0	3	75	82 -046
		0	3.5	75	82 -047
		1	4	75	82 -048
1 /2 circle Taper point 26 mm		3 /0	2	75	81 -059
		2 /0	3	75	81 -060
		0	3.5	75	81 -061
		1	4	75	81 -062
3 /8 circle conv. cutting 28 mm		2 /0	3	75	82 -063
		0	3.5	75	82 -064
		1	4	75	82 -065

Needle description		Suture description			
		USP	Metric	length(cm)	Code
3 /8 circle reverse cutting 28 mm		2 /0	3	75	82 -066
		0	3.5	75	82 -067
		1	4	75	82 -068
1 /2 circle Taper point 30 mm		3 /0	2	75	81 -069
		2 /0	3	75	81 -070
		0	3.5	75	81 -071
		1	4	75	81 -072
3 /8 circle reverse cutting 30 mm		3 /0	2	75	82 -073
		2 /0	3	75	82 -074
		0	3.5	75	82 -075
		1	4	75	82 -076
		2	5	75	82 -077
1 /2 circle Taper point 35 mm		3 /0	2	75	81 -078
		2 /0	3	75	81 -079
		0	3.5	75	81 -080
		1	4	75	81 -081

PDV®

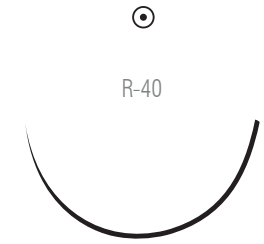
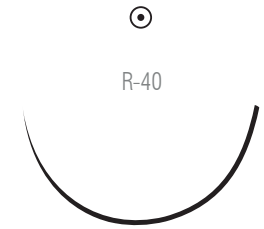
Monofilament Polydioxanon Synthetic Absorbable sutures

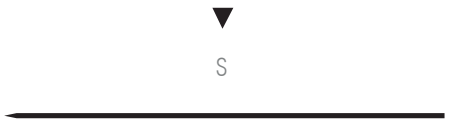
Needle description	Suture description			
	USP	Metric	length(cm)	Code
1 /2 circle Taper point (blunt) 35 mm R-48	3 /0	2	75	89 -082
	2 /0	3	75	89 -083
	0	3.5	75	89 -084
	1	4	75	89 -085
1 /2 circle Taper cutting 35 mm R-46	3 /0	2	75	87 -086
	2 /0	3	75	87 -087
	0	3.5	75	87 -088
	1	4	75	87 -089
1 /2 circle Taper point 38 mm  R-40	2 /0	3	75	81 -090
	0	3.5	75	81 -091
	1	4	75	81 -092
	2	5	75	81 -093
3 /8 circle Taper point 39 mm R-20	2 /0	3	75	81 -094
	0	3.5	75	81 -095
	1	4	75	81 -096
	2	5	75	81 -097

Needle description		Suture description			
		USP	Metric	length(cm)	Code
1 /2 circle Taper point (heavy) 40 mm		2 /0	3	75	88 -098
		0	3.5	75	88 -099
		1	4	75	88 -100
		2	5	75	88 -101
3 /8 circle conv. cutting 40 mm		2 /0	3	75	82 -102
		0	3.5	75	82 -103
		1	4	75	82 -104
		2	5	75	82 -105
1 /2 circle Taper point 40 mm		0	3.5	150 Loop	81 -138
		1	4	150 Loop	81 -139
		2	5	150 Loop	81 -140
3 /8 circle Taper point 45 mm		2 /0	3	75	81 -106
		0	3.5	75	81 -107
		1	4	75	81 -108
		2	5	75	81 -109

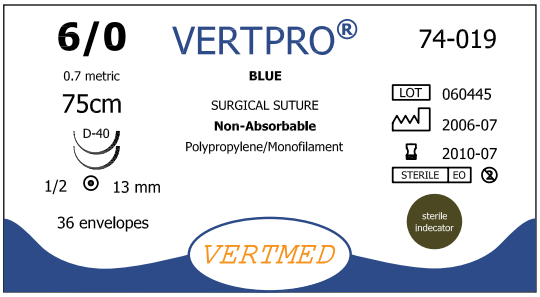
PDV®

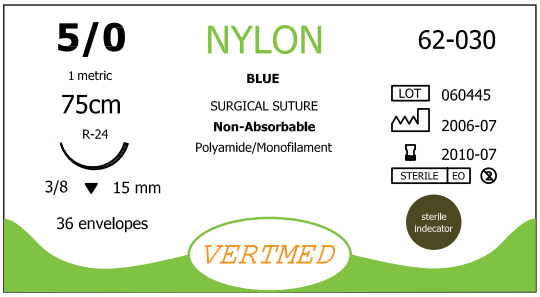
Monofilament Polydioxanon Synthetic Absorbable sutures

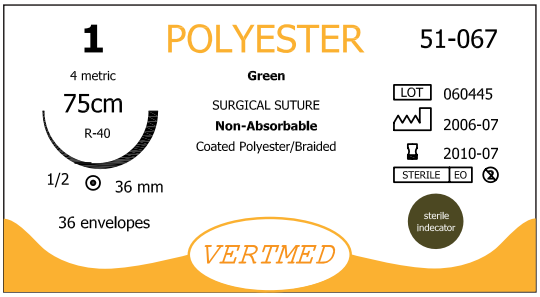
Needle description		Suture description			Code
		USP	Metric	length(cm)	
1 /2 circle Taper point 48 mm		2 /0	3	75	81 -110
		0	3.5	75	81 -111
		1	4	75	81 -112
		2	5	75	81 -113
3 /8 circle conv. cutting 48 mm		2 /0	3	75	82 -114
		0	3.5	75	82 -115
		1	4	75	82 -116
		2	5	75	82 -117
1 /2 circle Taper point 50 mm		2 /0	3	75	81 -118
		0	3.5	75	81 -119
		1	4	75	81 -120
		2	5	75	81 -121
3 /8 circle conv. cutting 50 mm		2 /0	3	75	82 -122
		0	3.5	75	82 -123
		1	4	75	82 -123
		2	5	75	82 -124

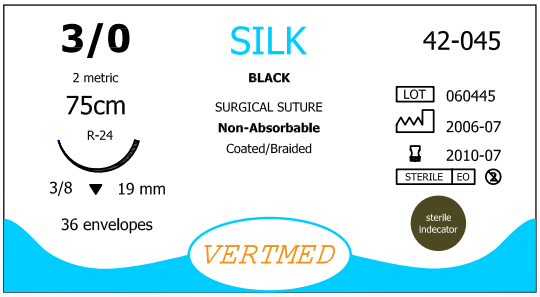
Needle description	Suture description			
	USP	Metric	length(cm)	Code
Straight cutting 60 mm  	3 /0	2	75	86 -125
	2 /0	3	75	86 -126
	0	3.5	75	86 -127
	1	4	75	86 -128
	2	5	75	86 -129
Without needle LIG	2 /0	3	75	80 -130
	0	3.5	75	80 -131
	1	4	75	80 -132
	2	5	75	80 -133
Without needle LIG	2 /0	3	150	80 -134
	0	3.5	150	80 -135
	1	4	150	80 -136
	2	5	150	80 -137

Non-Absorbable sutures









Silk

Coated Braided Non-absorbable sutures

Silk

Coated Braided Non-absorbable sutures

Silk is a surgical suture, non absorbable, natural, multifilament, made of an Organic protein called fibroin. The silicon coating treatment and the new braiding technique render this silks' surface smooth and uniform to facilitate its handling.

Composition: Organic protein called fibroin

Coating: Wax and Silicone

Structure: Braided or Twisted

Origin: Silkworm larval cocoons

Type of Absorption: Non-Absorbable

Loos of Tensile Strength: Around 1 year

Thread color: Black

Sterilization: Radiation or Ethylene Oxide (EO).

Packing: Silk sutures are available in U.S.P sizes 2 (5 metric) through 6 - 0 (0.7 metric). And in one, two or three dozen boxes.

Advantages:

Excellent handling properties
Good knot security

Indications:

General soft tissue approximation and/ or ligation
Ophthalmology
OB/GYN
Neurosurgery

Contraindications:

This suture being non absorbable is not recommended in Urology procedures due to the salt solutions found in the urinary tract which may result in calculus formation.

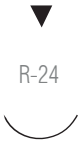
Precautions:

Its use for an indefinite period of time has been replaced for Synthetic sutures.

Needle description		Suture description			Code
		USP	Metric	length(cm)	
3 /8 circle spatula 8 mm	 R-27	6 /0	0.7	45	43 -001
		7 /0	0.5	45	43 -179
3 /8 circle spatula double 8 mm	 D-27	6 /0	0.7	45	43 -002
		7 /0	0.5	45	43 -180
3 /8 circle Taper point 8 mm	 R-20	6 /0	0.7	45	41 -003
		7 /0	0.5	45	41 -181
3 /8 circle Taper point 10 mm	 R-20	6 /0	0.7	75	41 -004
		5 /0	1	75	41 -005
3 /8 circle reverse cutting 10 mm	 R-24	6 /0	0.7	45	42 -006
		5 /0	1	45	42 -182
1 /2 circle reverse cutting double 10 mm	 D-44	6 /0	0.7	45	45 -007
		5 /0	1	45	45 -183
3 /8 circle conv. cutting double 10 mm	 D-22	5 /0	1	45	45 -008
		6 /0	0.7	45	45 -184

Silk

Coated Braided Non-absorbable sutures

Needle description		Suture description			
		USP	Metric	length(cm)	Code
3 /8 circle reverse cutting 12 mm		6 /0	0.7	75	42 -009
		5 /0	1	75	42 -010
		4 /0	1.5	75	42 -011
3 /8 circle reverse cutting 13 mm		6 /0	0.7	45	42 -012
		5 /0	1	45	42 -013
		4 /0	1.5	45	42 -014
3 /8 circle conv. cutting 13 mm		6 /0	0.7	75	42 -015
		5 /0	1	75	42 -016
		4 /0	1.5	75	42 -017
3 /8 circle reverse cutting double 13 mm		6 /0	0.7	75	45 -018
		5 /0	1	75	45 -019
		4 /0	1.5	75	45 -020
1 /2 circle Taper point 13 mm		6 /0	0.7	75	41 -155
		5 /0	1	75	41 -156
		4 /0	1.5	75	41 -157

Needle description	Suture description			
	USP	Metric	length(cm)	Code
3 /8 circle reverse cutting 15 mm R-24	6 /0	0.7	75	42 -021
	5 /0	1	75	42 -022
	4 /0	1.5	75	42 -023
	3 /0	2	75	42 -024
1 /2 circle reverse cutting 15 mm R-44	6 /0	0.7	75	42 -185
	5 /0	1	75	42 -038
	4 /0	1.5	75	42 -039
	3 /0	2	75	42 -040
3 /8 circle Taper point 16 mm R-20	6 /0	0.7	75	41 -186
	5 /0	1	75	41 -027
	4 /0	1.5	75	41 -028
	3 /0	2	75	41 -029
1 /2 circle Taper point 16 mm R-40	6 /0	0.7	75	41 -187
	5 /0	1	75	41 -041
	4 /0	1.5	75	41 -042
	3 /0	2	75	41 -043

Silk

Coated Braided Non-absorbable sutures

Needle description		Suture description			
		USP	Metric	length(cm)	Code
3 /8 circle conv. cutting 16 mm		5 /0	1	75	42 -030
		4 /0	1.5	75	42 -031
		3 /0	2	75	42 -032
		2 /0	3	75	42 -033
3 /8 circle reverse cutting 19 mm		4 /0	1.5	75	42 -044
		3 /0	2	75	42 -045
		2 /0	3	75	42 -046
3 /8 circle Taper point 19 mm		4 /0	1.5	75	41 -047
		3 /0	2	75	41 -048
		2 /0	3	75	41 -049
1 /2 circle conv. cutting 20 mm		4 /0	1.5	75	42 -050
		3 /0	2	75	42 -051
		2 /0	3	75	42 -052
		0	3.5	75	42 -053

Needle description		Suture description			Code
		USP	Metric	length(cm)	
3 /8 circle Taper point 20 mm		5 /0	1	75	41 -054
		4 /0	1.5	75	41 -055
		3 /0	2	75	41 -056
		2 /0	3	75	41 -057
		0	3.5	75	41 -058
1 /2 circle Taper point 20 mm		5 /0	1	75	41 -161
		4 /0	1.5	75	41 -059
		3 /0	2	75	41 -060
		2 /0	3	75	41 -061
1 /2 circle Taper point double 20 mm		4 /0	1.5	75	44 -062
		3 /0	2	75	44 -063
		2 /0	3	75	44 -064
1 /2 circle conv. cutting 22 mm		4 /0	1.5	75	42 -065
		3 /0	2	75	42 -066
		2 /0	3	75	42 -067
		0	3.5	75	42 -068

Silk

Coated Braided Non-absorbable sutures

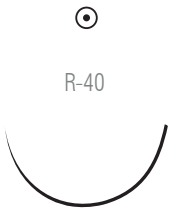
Needle description		Suture description			
		USP	Metric	length(cm)	Code
3 /8 circle reverse cutting 22 mm		4 /0	1.5	75	42 -168
		3 /0	2	75	42 -169
		2 /0	3	75	42 -170
		0	3.5	75	42 -171
1 /2 circle Taper point 22 mm		4 /0	1.5	75	41 -162
		3 /0	2	75	41 -163
		2 /0	3	75	41 -164
1 /2 circle Taper point double 24 mm		4 /0	1.5	75	44 -177
		3 /0	2	75	44 -178
3 /8 circle conv. cutting 25 mm		5 /0	1	75	42 -069
		4 /0	1.5	75	42 -070
		3 /0	2	75	42 -071
		2 /0	3	75	42 -072
		0	3.5	75	42 -073

Needle description	Suture description			
	USP	Metric	length(cm)	Code
1 /2 circle Taper point 25 mm R-40	4 /0	1.5	75	41 -074
	3 /0	2	75	41 -075
	2 /0	3	75	41 -076
	0	3.5	75	41 -077
1 /2 circle reverse cutting 26 mm R-44	4 /0	1.5	75	42 -078
	3 /0	2	75	42 -079
	2 /0	3	75	42 -080
	0	3.5	75	42 -081
1 /2 circle Taper point 26 mm R-40	4 /0	1.5	75	41 -082
	3 /0	2	75	41 -083
	2 /0	3	75	41 -084
	0	3.5	75	41 -085
3 /8 circle reverse cutting 26 mm R-24	4 /0	1.5	75	42 -086
	3 /0	2	75	42 -087
	2 /0	3	75	42 -088
	0	3.5	75	42 -089

Silk

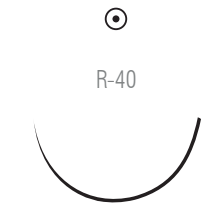
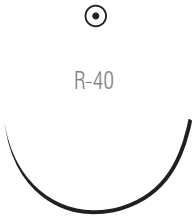
Coated Braided Non-absorbable sutures

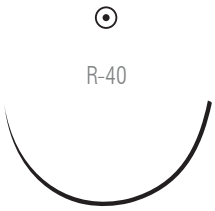
Needle description		Suture description			
		USP	Metric	length(cm)	Code
3 /8 circle Taper point 26 mm		4 /0	1.5	75	41 -090
		3 /0	2	75	41 -091
		2 /0	3	75	41 -092
		0	3.5	75	41 -093
3 /8 circle reverse cutting 30 mm		3 /0	2	75	42 -094
		2 /0	3	75	42 -095
		0	3.5	75	42 -096
		1	4	75	42 -097
1 /2 circle Taper point 30 mm		3 /0	2	75	41 -098
		2 /0	3	75	41 -099
		0	3.5	75	41 -100
		1	4	75	41 -101

Needle description	Suture description			
	USP	Metric	length(cm)	Code
3 /8 circle reverse cutting 35 mm R-24	3 /0	2	75	42 -102
	2 /0	3	75	42 -103
	0	3.5	75	42 -104
	1	4	75	42 -105
	2	5	75	42 -106
1 /2 circle Taper point 35 mm  R-40	3 /0	2	75	41 -107
	2 /0	3	75	41 -108
	0	3.5	75	41 -109
	1	4	75	41 -110
	2	5	75	41 -111
3 /8 circle reverse cutting 37 mm R-24	3 /0	2	75	42 -112
	2 /0	3	75	42 -113
	0	3.5	75	42 -114
	1	4	75	42 -115
	2	5	75	42 -116

Silk

Coated Braided Non-absorbable sutures

Needle description	Suture description			
	USP	Metric	length(cm)	Code
1 /2 circle Taper point 37 mm  	3 /0	2	75	41 -117
	2 /0	3	75	41 -118
	0	3.5	75	41 -119
	1	4	75	41 -120
	2	5	75	41 -121
3 /8 circle reverse cutting 40 mm 	2 /0	3	75	42 -122
	0	3.5	75	42 -123
	1	4	75	42 -124
	2	5	75	42 -125
1 /2 circle Taper point 40 mm  	2 /0	3	75	41 -126
	0	3.5	75	41 -127
	1	4	75	41 -128
	2	5	75	41 -129

Needle description		Suture description			Code
		USP	Metric	length(cm)	
1 /2 circle Taper point (heavy) 40 mm		2 /0	3	75	48 -130
		0	3.5	75	48 -131
		1	4	75	48 -132
		2	5	75	48 -133
3 /8 circle reverse cutting 45 mm		0	3.5	75	42 -134
		1	4	75	42 -135
		2	5	75	42 -136
1 /2 circle Taper point 45 mm		0	3.5	75	41 -165
		1	4	75	41 -166
		2	5	75	41 -167
1 /2 circle reverse cutting 50 mm		0	3.5	75	42 -140
		1	4	75	42 -141
		2	5	75	42 -142
Straight cutting 60 mm		0	3.5	75	46 -137
		1	4	75	46 -138
		2	5	75	46 -139

Silk

Coated Braided Non-absorbable sutures

Needle description	Suture description			Code
	USP	Metric	length(cm)	
Without needle LIG	4 /0	1.5	150	40 -143
	3 /0	2	150	40 -144
	2 /0	3	150	40 -145
	0	3.5	150	40 -146
	1	4	150	40 -147
	2	5	150	40 -148
Without needle set LIG	4 /0	1.5	6 X 60	40 -149
	3 /0	2	6 X 60	40 -150
	2 /0	3	6 X 60	40 -151
	0	3.5	6 X 60	40 -152
	1	4	6 X 60	40 -153
	2	5	6 X 60	40 -154

Polyester

Coated Braided Non-absorbable sutures

Polyester

Coated Braided Non-absorbable sutures

Polyester is surgical multifilament twisted, siliconized, non absorbable,synthetic suture made of polymer of polyethylene terephthalate (polyester).

Composition: Polyethylene terephthalate

Coating: Silicone

Structure: Braided

Origin: Synthetic

Type of Absorption: Non-Absorbable (encapsulated by the organism)

Loos of Tensile Strength: Keep its tensile strength indefinitely

Thread color: Green or white

Sterilization: Radiation or Ethylene Oxide (EO).

Packing: Polyester sutures are available in U.S.P sizes 2 (5 metric) through 6 - 0 (0.7 metric). And in one, two or three dozen boxes .

Advantages:

Good knot-pull tensile strength
Long term tensile strength retention
Excellent knot security
Good tissue compatibility

Indications:

Cardiovascular surgery
Ophthalmic surgery
Neurosurgery

Contraindications:

Not known

Precautions:

As with any suture material, adequate knot security requires the accepted surgical technique of flat and square ties with additional throws.

Polyester

Coated Braided Non-absorbable sutures

Needle description		Suture description			
		USP	Metric	length(cm)	Code
3 /8 circle spatula 8 mm		6 /0	0.7	45	53 -001
		5 /0	1	45	53 -002
		4 /0	1.5	45	53 -003
3 /8 circle spatula double 8 mm		6 /0	0.7	45	53 -004
		5 /0	1	45	53 -005
		4 /0	1.5	45	53 -006
3 /8 circle Taper point 10 mm		6 /0	0.7	75	51 -007
		5 /0	1	75	51 -008
		4 /0	1.5	75	51 -009
3 /8 circle Taper point double 10 mm		6 /0	0.7	75	54 -010
		5 /0	1	75	54 -011
		4 /0	1.5	75	54 -012
3 /8 circle Taper point double 13 mm		6 /0	0.7	75	54 -013
		5 /0	1	75	54 -014
		4 /0	1.5	75	54 -015

Polyester

Coated Braided Non-absorbable sutures

Needle description		Suture description			
		USP	Metric	length(cm)	Code
1 /2 circle Taper point double 13 mm		6 /0	0.7	75	54 -016
		5 /0	1	75	54 -017
		4 /0	1.5	75	54 -018
3 /8 circle Taper point double 16 mm		5 /0	1	75	54 -019
		4 /0	1.5	75	54 -020
		3 /0	2	75	54 -021
		2 /0	3	75	54 -022
1 /2 circle Taper point double 17 mm		5 /0	1	75	54 -023
		4 /0	1.5	75	54 -024
		3 /0	2	75	54 -025
		2 /0	3	75	54 -026
1 /2 circle Taper point double 20 mm		4 /0	1.5	75	54 -027
		3 /0	2	75	54 -028
		2 /0	3	75	54 -029

Polyester

Coated Braided Non-absorbable sutures

Needle description		Suture description			
		USP	Metric	length(cm)	Code
1 /2 circle reverse cutting double 20 mm		4 /0	1.5	75	55 -030
		3 /0	2	75	55 -031
		2 /0	3	75	55 -032
1 /2 circle Taper point double 22 mm		4 /0	1.5	75	54 -033
		3 /0	2	75	54 -034
		2 /0	3	75	54 -035
		0	3.5	75	54 -036
		1	4	75	54 -037
1 /2 circle conv. cutting double 22 mm		4 /0	1.5	75	55 -038
		3 /0	2	75	55 -039
		2 /0	3	75	55 -040
		0	3.5	75	55 -041
		1	4	75	55 -042

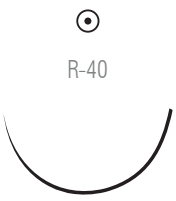
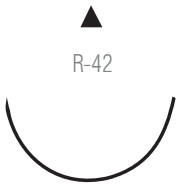
Polyester

Coated Braided Non-absorbable sutures

Needle description	Suture description			Code
	USP	Metric	length(cm)	
1 /2 circle Taper point 25 mm 	4 /0	1.5	75	51 -043
	3 /0	2	75	51 -044
	2 /0	3	75	51 -045
	0	3.5	75	51 -046
	1	4	75	51 -047
1 /2 circle conv. cutting double 25 mm 	4 /0	1.5	75	55 -048
	3 /0	2	75	55 -049
	2 /0	3	75	55 -050
	0	3.5	75	55 -051
	1	4	75	55 -052
1 /2 circle Taper point 30 mm 	3 /0	2	75	51 -053
	2 /0	3	75	51 -054
	0	3.5	75	51 -055
	1	4	75	51 -056

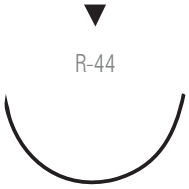
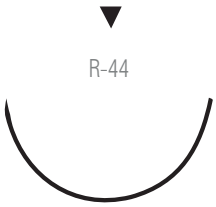
Polyester

Coated Braided Non-absorbable sutures

Needle description		Suture description			
		USP	Metric	length(cm)	Code
1 /2 circle conv. cutting 30 mm		3 /0	2	75	52 -057
		2 /0	3	75	52 -058
		0	3.5	75	52 -059
		1	4	75	52 -060
3 /8 circle reverse cutting 35 mm		2 /0	3	75	52 -061
		0	3.5	75	52 -062
		1	4	75	52 -063
1 /2 circle Taper point 36 mm		2 /0	3	75	51 -065
		0	3.5	75	51 -066
		1	4	75	51 -067
1 /2 circle reverse cutting 36 mm		2 /0	3	75	52 -068
		0	3.5	75	52 -069
		1	4	75	52 -070
1 /2 circle conv. cutting 36 mm		2 /0	3	75	52 -071
		0	3.5	75	52 -072
		1	4	75	52 -073

Polyester

Coated Braided Non-absorbable sutures

Needle description		Suture description			
		USP	Metric	length(cm)	Code
1 /2 circle reverse cutting 40 mm		0	3.5	75	52 -074
		1	4	75	52 -075
		2	5	75	52 -076
1 /2 circle reverse cutting 45 mm		0	3.5	75	52 -080
		1	4	75	52 -081
		2	5	75	52 -082
straight cutting 60 mm		4 /0	1.5	75	56 -083
		3 /0	2	75	56 -084
		2 /0	3	75	56 -085

Vertpro®

Monofilament Polypropylene Non-absorbable sutures

Vertpro®

Monofilament Polypropylene Non-absorbable sutures

Polypropylene is a synthetic, non-absorbable, monofilament made of polymers of isostatic polypropylene with a high tensile strength. The suture is pigmented blue to enhance visibility.

Composition: Isotactic crystalline stereoisomer of polypropylene

Coating: Uncoated

Structure: Monofilament

Origin: Synthetic

Type of Absorption: Non-Absorbable (encapsulated by the organism)

Loos of Tensile Strength: Keep its tensile strength indefinitely

Thread Color: Blue

Sterilization: Ethylene Oxide (EO).

Packing: Polypropylene sutures are available in U.S.P sizes 2 (5 metric) through 7 - 0 (0.5 Metric). And in one, two or three dozen boxes.

Advantages:

High tensile strength
Secure knot holding
Smooth tissue passage
Excellent tissue compatibility

Indications:

All procedures that require the use of a non-absorbable synthetic suture with a high tensile strength.
Skin Closure
Plastic surgery, Ophthalmic and Neurosurgery
Cardiovascular surgery

Contraindications:

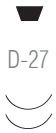
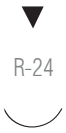
Not known

Precautions:

Adequate knot security requires the accepted surgical technique of flat, square ties of single suture strands. The use of additional throws is appropriate when knotting this type of suture.

Vertpro®

Monofilament Polypropylene Non-absorbable sutures

Needle description		Suture description			Code
		USP	Metric	length(cm)	
3 /8 circle spatula double 8 mm		7 /0	0.5	45	73 -001
		6 /0	0.7	45	73 -002
3 /8 circle Taper point double 8 mm		7 /0	0.5	45	74 -003
		6 /0	0.7	45	74 -004
3 /8 circle Taper point 10 mm		7 /0	0.5	45	71 -005
		6 /0	0.7	45	71 -006
		5 /0	1	45	71 -007
3 /8 circle reverse cutting 10 mm		7 /0	0.5	45	72 -008
		6 /0	0.7	45	72 -009
		5 /0	1	45	72 -010
3 /8 circle Taper point double 10 mm		7 /0	0.5	45	74 -011
		6 /0	0.7	45	74 -012
		5 /0	1	45	74 -013
3 /8 circle reverse cutting double 10 mm		7 /0	0.5	45	75 -014
		6 /0	0.7	45	75 -015
		5 /0	1	45	75 -016

Vertpro®

Monofilament Polypropylene Non-absorbable sutures

Needle description		Suture description			Code
		USP	Metric	length(cm)	
1 /2 circle Taper point double 10 mm		6 /0	0.7	45	74 -017
		5 /0	1	45	74 -018
1 /2 circle Taper point double 13 mm		6 /0	0.7	75	74 -019
		5 /0	1	75	74 -020
3 /8 circle Taper point double 13 mm		7 /0	0.5	75	74 -021
		6 /0	0.7	75	74 -022
		5 /0	1	75	74 -023
3 /8 circle Taper cutting double 13 mm		6 /0	0.7	75	77 -024
		5 /0	1	75	77 -025
3 /8 circle Taper point 13 mm		6 /0	0.7	75	71 -026
		5 /0	1	75	71 -027
3 /8 circle conv. cutting 15 mm		6 /0	0.7	75	72 -028
		5 /0	1	75	72 -029
		4 /0	1.5	75	72 -030
1 /2 circle Taper point double 15 mm		4 /0	1.5	75	74 -031

Vertpro®

Monofilament Polypropylene Non-absorbable sutures

Needle description		Suture description			Code
		USP	Metric	length(cm)	
3 /8 circle reverse cutting 16 mm		5 /0	1	75	72 -032
		4 /0	1.5	75	72 -033
		3 /0	2	75	72 -034
1 /2 circle Taper point 16 mm		5 /0	1	75	71 -035
		4 /0	1.5	75	71 -036
		3 /0	2	75	71 -037
1 /2 circle Taper cutting double 16 mm		5 /0	1	75	77 -038
		4 /0	1.5	75	77 -039
		3 /0	2	75	77 -040
1 /2 circle Taper point double 16 mm		5 /0	1	75	74 -041
		4 /0	1.5	75	74 -042
		3 /0	2	75	74 -043
3 /8 circle Taper point double 18 mm		4 /0	1.5	75	74 -044

Vertpro®

Monofilament Polypropylene Non-absorbable sutures

Needle description		Suture description			Code
		USP	Metric	length(cm)	
3 /8 circle conv. cutting 19 mm		5 /0	1	75	72 -045
		4 /0	1.5	75	72 -046
		3 /0	2	75	72 -047
3 /8 circle reverse cutting 19 mm		5 /0	1	75	72 -048
		4 /0	1.5	75	72 -049
		3 /0	2	75	72 -050
1 /2 circle Taper point double 20 mm		4 /0	1.5	75	74 -051
		3 /0	2	75	74 -089
		2 /0	3	75	74 -090
1 /2 circle Taper point 22 mm		4 /0	1.5	75	71 -052
		3 /0	2	75	71 -053
		2 /0	3	75	71 -054
		0	3.5	75	71 -055

Needle description		Suture description			
		USP	Metric	length(cm)	Code
1 /2 circle conv. cutting 22 mm		4 /0	1.5	75	72 -056
		3 /0	2	75	72 -057
		2 /0	3	75	72 -058
		0	3.5	75	72 -059
3 /8 circle reverse cutting 24 mm		3 /0	2	75	72 -060
		2 /0	3	75	72 -061
		0	3.5	75	72 -062
3 /8 circle conv. cutting 25 mm		4 /0	1.5	75	72 -063
		3 /0	2	75	72 -064
		2 /0	3	75	72 -065
		0	3.5	75	72 -066
		1		75	72 -067

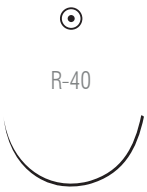
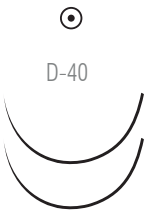
Vertpro®

Monofilament Polypropylene Non-absorbable sutures

Needle description		Suture description			Code
		USP	Metric	length(cm)	
1 /2 circle Taper point double 25 mm		4 /0	1.5	75	74 -068
		3 /0	2	75	74 -069
		2 /0	3	75	74 -070
		0	3.5	75	74 -071
		1	4	75	74 -072
1 /2 circle Taper cutting 25 mm		4 /0	1.5	75	77 -073
		3 /0	2	75	77 -074
		2 /0	3	75	77 -075
		0	3.5	75	77 -076
3 /8 circle reverse cutting 26 mm		3 /0	2	75	72 -077
		2 /0	3	75	72 -078
		0	3.5	75	72 -079
		1	4	75	72 -123

Vertpro®

Monofilament Polypropylene Non-absorbable sutures

Needle description		Suture description			Code
		USP	Metric	length(cm)	
1 /2 circle reverse cutting 26 mm		3 /0	2	75	72 -124
		2 /0	3	75	72 -125
		0	3.5	75	72 -126
		1	4	75	72 -127
1 /2 circle Taper point 26 mm		3 /0	2	75	71 -080
		2 /0	3	75	71 -081
		0	3.5	75	71 -082
1 /2 circle Taper point 30 mm		3 /0	2	75	71 -083
		2 /0	3	75	71 -084
		0	3.5	75	71 -085
		1	4	75	71 -086
1 /2 circle Taper point double 30 mm		3 /0	2	75	74 -087
		2 /0	3	75	74 -088

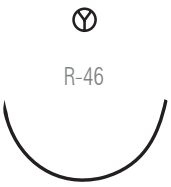
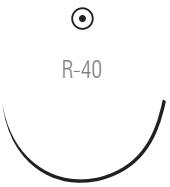
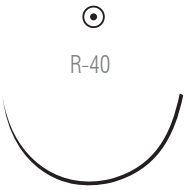
Vertpro®

Monofilament Polypropylene Non-absorbable sutures

Needle description		Suture description			Code
		USP	Metric	length(cm)	
1 /2 circle Taper point (heavy) 30 mm		3 /0	2	75	78 -091
		2 /0	3	75	78 -092
		0	3.5	75	78 -093
		1	4	75	78 -094
1 /2 circle Taper cutting double 30 mm		3 /0	2	75	77 -095
		2 /0	3	75	77 -096
3 /8 circle reverse cutting 30 mm		3 /0	2	75	72 -099
		2 /0	3	75	72 -100
		0	3.5	75	72 -101
		1	4	75	72 -102
3 /8 circle reverse cutting 35 mm		3 /0	2	75	72 -103
		2 /0	3	75	72 -104
		0	3.5	75	72 -105
		1	4	75	72 -106

Vertpro®

Monofilament Polypropylene Non-absorbable sutures

Needle description		Suture description			Code
		USP	Metric	length(cm)	
1 /2 circle Taper cutting 35 mm		2 /0	3	75	77 -107
		0	3.5	75	77 -108
		1	4	75	77 -109
1 /2 circle Taper point 35 mm		2 /0	3	75	71 -110
		0	3.5	75	71 -111
		1	4	75	71 -112
1 /2 circle Taper point 40 mm		2 /0	3	75	71 -113
		0	3.5	75	71 -114
		1	4	75	71 -115
1 /2 circle reverse cutting 40 mm		2 /0	3	75	72 -116
		0	3.5	75	72 -117
		1	4	75	72 -0118
		2	5	75	72 -097
1 /2 circle Taper point (heavy) 40 mm		0	3.5	75	78 -119
		1	4	75	78 -120
		2	5	75	78 -126

Vertpro®

Monofilament Polypropylene Non-absorbable sutures

Needle description		Suture description			Code
		USP	Metric	length(cm)	
1 /2 circle Taper point (heavy) 45 mm		0	3.5	100	78 -121
		1	4	100	78 -122
straight cutting 60 mm		4 /0	1.5	75	76 -128
		3 /0	2	75	76 -124
		2 /0	3	75	76 -125

Nylon

Monofilament Polyamide Non-absorbable sutures

Nylon

Monofilament Polyamide Non-absorbable sutures

Nylon is a surgical suture, non-absorbable made of polyamide (long aliphatic polymer chain of 6 Nylon or Nylon 6.6). It can be presented as a monofilament or braided.

Composition: Polyamide

Coating: Uncoated

Structure: Monofilament or braided

Origin: Synthetic

Type of Absorption: Non-absorbable

Loos of Tensile Strength: Around 5 year

Thread color: Blue, Black, or Undyed

Sterilization: Radiation or Ethylene Oxide (EO).

Packing: Nylon sutures are available in U.S.P sizes 2(5 metric) through 10 - 0 (0.1 Metric). in one, two or three dozen boxes.

Advantages:

Good knot-pull tensile strength
Secure knot holding
Smooth tissue passage
Good tissue compatibility

Indications:

For all procedures that require a suture with a great tensile strength during the healing period.
Skin Closure, Cuticular, General Closure,Vascular.
Plastic surgery
Ophthalmic surgery

Contraindications:

This type of suture is not recommended for procedures that involve internal tissues that can later difficult the removing of the knotting.

Precautions:

As with any suture material, adequate knot security requires the accepted surgical technique of flat and square ties with additional throws.

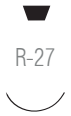
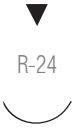
Nylon

Monofilament Polyamide Non-absorbable sutures

Needle description		Suture description			Code
		USP	Metric	length(cm)	
3 /8 circle spatula double 6 mm		10 /0	0.2	45	63 -139
		9 /0	0.3	45	63 -140
3 /8 circle spatula 6 mm		8 /0	0.4	45	63 -004
		7 /0	0.5	45	63 -005
		6 /0	0.7	45	63 -006
3 /8 circle spatula double 8 mm		8 /0	0.4	45	63 -010
		7 /0	0.5	45	63 -011
		6 /0	0.7	45	63 -012
3 /8 circle Taper point 8 mm		8 /0	0.4	45	61 -001
		7 /0	0.5	45	61 -002
		6 /0	0.7	45	61 -003
3 /8 circle Taper point double 8 mm		8 /0	0.4	45	64 -007
		7 /0	0.5	45	64 -008
		6 /0	0.7	45	64 -009

Nylon

Monofilament Polyamide Non-absorbable sutures

Needle description		Suture description			
		USP	Metric	length(cm)	Code
3 /8 circle spatula 10 mm		7 /0	0.5	45	63 -013
		6 /0	0.7	45	63 -014
		5 /0	1	45	63 -015
3 /8 circle Taper point 10 mm		7 /0	0.5	45	61 -016
		6 /0	0.7	45	61 -017
		5 /0	1	45	61 -018
3 /8 circle reverse cutting 12 mm		6 /0	0.7	75	62 -019
		5 /0	1	75	62 -020
		4 /0	1.5	75	62 -021
3 /8 circle spatula 13 mm		7 /0	0.5	45	63 -022
		6 /0	0.7	45	63 -023
		5 /0	1	45	63 -024
		4 /0	1.5	45	63 -025
3 /8 circle reverse cutting 13 mm		6 /0	0.7	75	62 -026
		5 /0	1	75	62 -027
		4 /0	1.5	75	62 -028

Nylon

Monofilament Polyamide Non-absorbable sutures

Needle description		Suture description			
		USP	Metric	length(cm)	Code
1 /2 circle Taper point 15 mm		6 /0	0.7	75	61 -032
		5 /0	1	75	61 -033
		4 /0	1.5	75	61 -034
3 /8 circle reverse cutting 15 mm		6 /0	0.7	75	62 -029
		5 /0	1	75	62 -030
		4 /0	1.5	75	62 -031
1 /2 circle Taper point 17 mm		5 /0	1	75	61 -095
		4 /0	1.5	75	61 -096
		3 /0	2	75	61 -097
3 /8 circle reverse cutting 17 mm		6 /0	0.7	75	62 -118
		5 /0	1	75	62 -119
		4 /0	1.5	75	62 -120

Nylon

Monofilament Polyamide Non-absorbable sutures

Needle description	Suture description			
	USP	Metric	length(cm)	Code
3 /8 circle conv. cutting 19 mm R-22	5 /0	1	75	62 -035
	4 /0	1.5	75	62 -036
	3 /0	2	75	62 -037
	2 /0	3	75	62 -038
	0	3.5	75	62 -039
1 /2 circle reverse cutting 19 mm R-44	5 /0	1	75	62 -040
	4 /0	1.5	75	62 -041
	3 /0	2	75	62 -042
	2 /0	3	75	62 -043
	0	3.5	75	62 -044
3 /8 circle reverse cutting 20 mm R-24	5 /0	1	75	62 -045
	4 /0	1.5	75	62 -046
	3 /0	2	75	62 -047
	2 /0	3	75	62 -048
	0	3.5	75	62 -049

Nylon

Monofilament Polyamide Non-absorbable sutures

Needle description	Suture description			
	USP	Metric	length(cm)	Code
1 /2 circle Taper point 20 mm R-40	5 /0	1	75	61 -098
	4 /0	1.5	75	61 -099
	3 /0	2	75	61 -100
	2 /0	3	75	61 -101
1 /2 circle Taper point 22 mm R-40	4 /0	1.5	75	61 -102
	3 /0	2	75	61 -103
	2 /0	3	75	61 -104
	0	3.5	75	61 -105
3 /8 circle reverse cutting 22 mm R-24	5 /0	1	75	62 -121
	4 /0	1.5	75	62 -122
	3 /0	2	75	62 -123
	2 /0	3	75	62 -124
	0	3.5	75	62 -125

Nylon

Monofilament Polyamide Non-absorbable sutures

Needle description		Suture description			
		USP	Metric	length(cm)	Code
1 /2 circle reverse cutting 25 mm		5 /0	1	75	62 -126
		4 /0	1.5	75	62 -127
		3 /0	2	75	62 -128
		2 /0	3	75	62 -129
		0	3.5	75	62 -130
3 /8 circle reverse cutting 25 mm		5 /0	1	75	62 -050
		4 /0	1.5	75	62 -051
		3 /0	2	75	62 -052
		2 /0	3	75	62 -053
1 /2 circle Taper point 26 mm		4 /0	1.5	75	61 -106
		3 /0	2	75	61 -107
		2 /0	3	75	61 -108
		0	3.5	75	61 -109

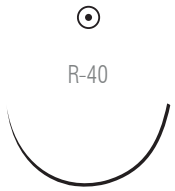
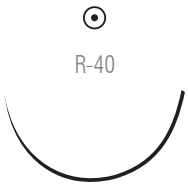
Nylon

Monofilament Polyamide Non-absorbable sutures

Needle description		Suture description			
		USP	Metric	length(cm)	Code
3 /8 circle reverse cutting 26 mm		4 /0	1.5	75	62 -055
		3 /0	2	75	62 -056
		2 /0	3	75	62 -057
		0	3.5	75	62 -058
1 /2 circle Taper point 30 mm		4 /0	1.5	75	61 -059
		3 /0	2	75	61 -060
		2 /0	3	75	61 -061
		0	3.5	75	61 -062
3 /8 circle reverse cutting 30 mm		4 /0	1.5	75	62 -063
		3 /0	2	75	62 -064
		2 /0	3	75	62 -065
		0	3.5	75	62 -066
1 /2 circle reverse cutting 30 mm		4 /0	1.5	75	62 -131
		3 /0	2	75	62 -132
		2 /0	3	75	62 -133
		0	3.5	75	62 -134

Nylon

Monofilament Polyamide Non-absorbable sutures

Needle description	Suture description			
	USP	Metric	length(cm)	Code
1 /2 circle reverse cutting 35 mm 	3 /0	2	75	62 -135
	2 /0	3	75	62 -136
	0	3.5	75	62 -137
	1	4	75	62 -138
1 /2 circle Taper point 35 mm  	3 /0	2	75	61 -110
	2 /0	3	75	61 -111
	0	3.5	75	61 -112
	1	4	75	61 -113
1 /2 circle Taper point 40 mm  	3 /0	2	75	61 -067
	2 /0	3	75	61 -068
	0	3.5	75	61 -069
	1	4	75	61 -070
	2	5	75	61 -071

Nylon

Monofilament Polyamide Non-absorbable sutures

Needle description	Suture description			
	USP	Metric	length(cm)	Code
3 /8 circle reverse cutting 40 mm R-24	2 /0	3	75	62 -072
	0	3.5	75	62 -073
	1	4	75	62 -074
	2	5	75	62 -075
1 /2 circle Taper point 45 mm R-40	2 /0	3	75	61 -114
	0	3.5	75	61 -115
	1	4	75	61 -116
	2	5	75	61 -117
straight cutting 60 mm S	3 /0	2	75	66 -095
	2 /0	3	75	66 -077
	0	3.5	75	66 -078

Nylon

Monofilament Polyamide Non-absorbable sutures

Needle description	Suture description			Code
	USP	Metric	length(cm)	
Without needle LIG	6 /0	0.7	75	60 -079
	5 /0	1	75	60 -080
	4 /0	1.5	75	60 -081
	3 /0	2	75	60 -082
	2 /0	3	75	60 -083
	0	3.5	75	60 -084
	1	4	75	60 -085
	2	5	75	60 -086
Without needle LIG	2 /0	3	150	60 -091
	0	3.5	150	60 -092
	1	4	150	60 -093
	2	5	150	60 -094

Surgical Fundamentals

Introduction:

Surgery describes the branch of medical practice in which manual and instrumental operation are performed on the body. The goals of surgical operations include:
Removal of diseased or abnormal tissue.
Diagnosis and cure of disease.
Repair of injuries.
Relief of suffering.
Prolongation of life.
To achieve these wide-ranging objectives, many different kinds of surgical procedures are performed in different areas of the body.

Surgical Specialities

Common surgical specialities include the following:
- General / gastrointestinal surgery
- Thoracic surgery
- Cardiovascular surgery
- Obstetric & gynaecology surgery
- Plastic and reconstructive surgery
- Orthopaedic surgery
- Neurosurgery
- Ophthalmic surgery

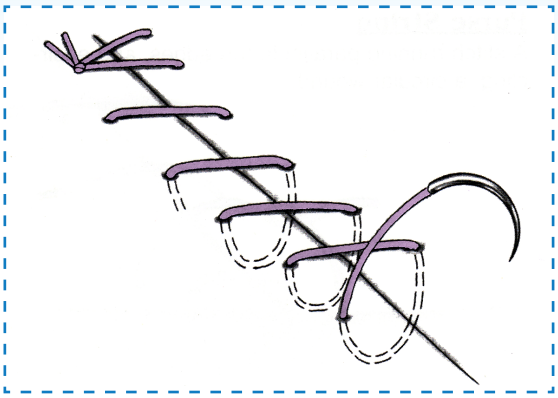
Structure and Stitches

The term "Structure" can be used in several different ways:
The thread-like material used to close a surgical wound.
A stitch or series of stitches used to hold wound edges together until wound healing can occur.
The act of using stitches to close a wound.
Different surgical stitches are used in various types of tissues for different purposes, such as tissue approximation and closure, ligating of blood vessels, and transfixing of tissue. Some of the most frequently used types of sutures are described and illustrated in this chapter.

Types of stitches

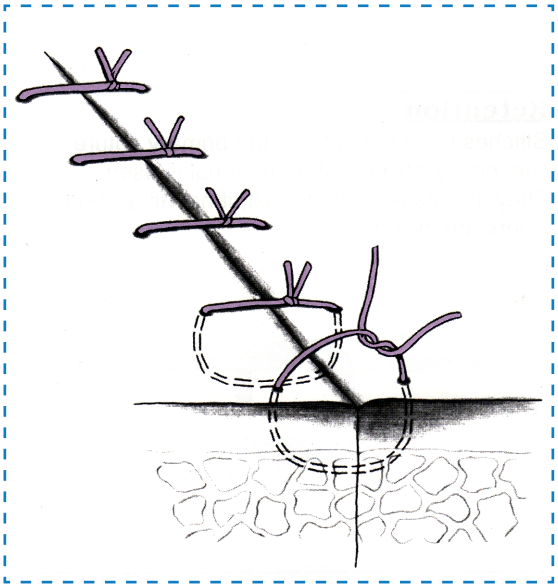
Continuous or "Running"

A stitch made with one uninterrupted length of suture material. Generally used to close a tissue layer which does not have great strength, but requires close approximation. For example, the tissue layers of the abdomen include the following layers { Peritoneum, Facial, Muscle, Subcutaneous Fat, Skin }
Peritoneum usually closed with continuous absorbable sutures.



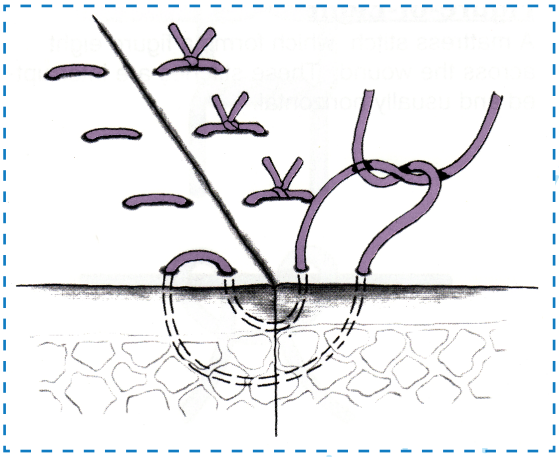
Interrupted

Each stitch is made with a separate piece of suture material, which is tied separately. This type of stitching may be used in skin and in any underlying tissue layers.
Facial usually closed with interrupted absorbable or non-absorbable sutures.



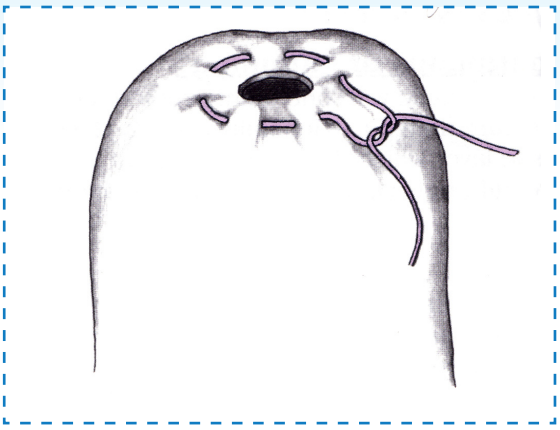
Mattress

Stitches made parallel or at an angle to the edge of the wound and which cross form one side of the wound to the other. Each stitch penetrates each side of the wound twice to ensure strength. This stitch can be used in the skin, posterior fascia, and blood vessels.



Purse String

A stitch running parallel to the edges, and encircling, a circular wound.
During appendicecsony procedure a purse string suture is placed at the base of the appendix, through the serosa into the sub mucosa



Retention

Stitches used to reinforce the primary suture line; heavy, strong suture material is used. They are made so that most, if not all, wound layers are included.

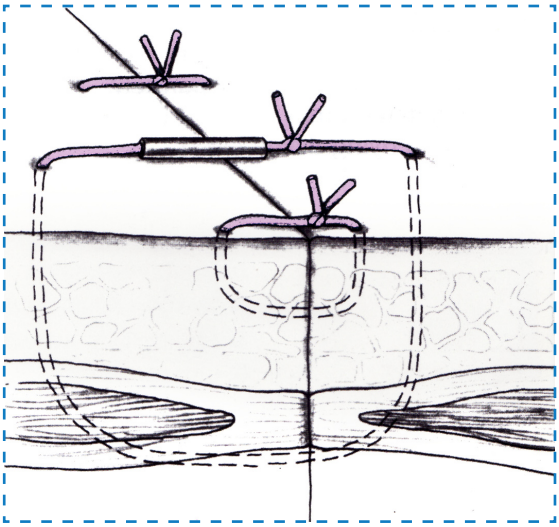
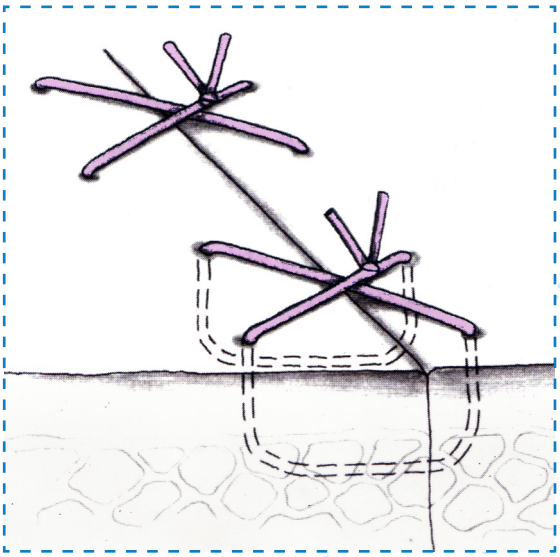


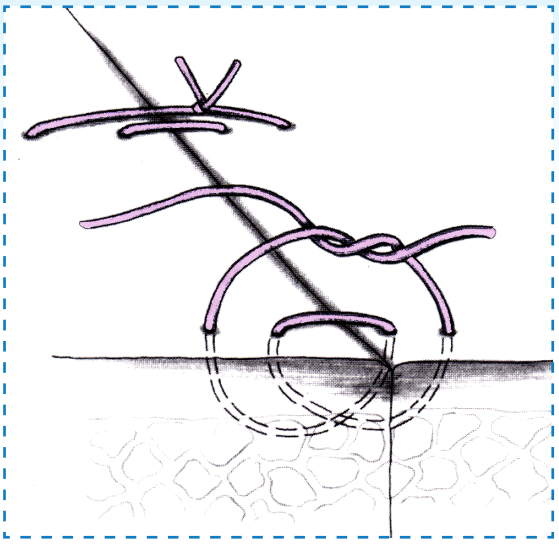
Figure-of-Eight

A mattress stitch which forms a figure eight across the wound. These stitches are interrupted and usually horizontal.



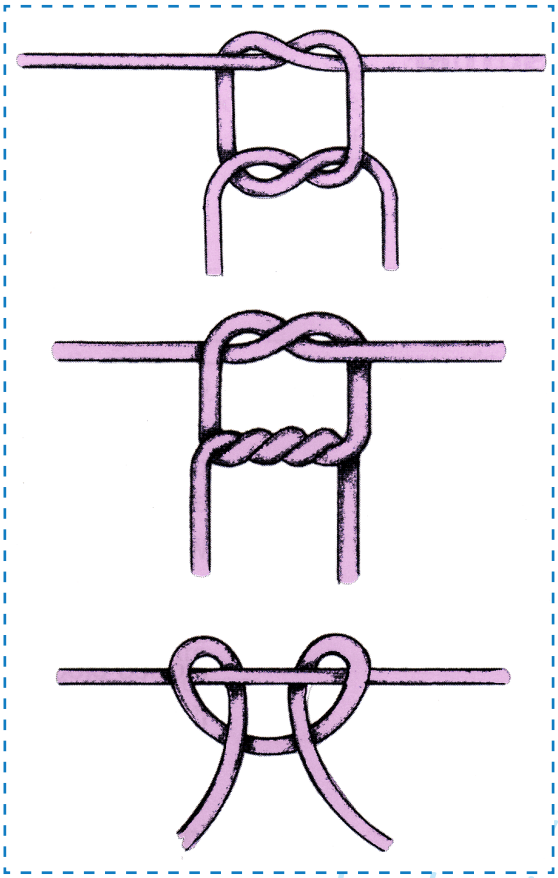
Near-Far / Smead-Jones

A double loop stitch, which one loop extending beyond the other across the wound.



Surgical knots

Correctly tied surgical knots are essential to a successful operation because each stitch can be no longer than its knot. Frequently used surgical knots are shown below.



Square Knot

The most frequently used surgical knot. Each successive throw placed in the opposite direction.

Surgeon`s Knot

A variation of the square knot. An extra throw is made to prevent slippage.

Combination Knot/Slip Knot

Useful when the knot must be adjusted or when access is limited or difficult. Two successive throws placed in the same direction.

Tying Methods:

There are three basic knot-tying methods used in surgery.

One-Handed Knot tying

All manoeuvring, including releasing and regrasping of the free end of the suture is performed with one hand; the other hand is used only to hold the fixed portion taut. This technique increases the speed of knot tying, but control of tension is somewhat limited.

Two-Handed Knot Tying

Both hands are used in tying, with one hand holding the fixed segment and manipulating the suture and the other hand holding, letting go of, and then regrasping the free end. This method allows greater precision, since constant pressure can be placed on the suture.

Instrument Tying

A needle holder is used to grasp the needle, and loop(s) are made about the holder to form the desired knot. The free hand is used to hold the free end of the suture. Instrument tying may be used if access to the wound is difficult, when very fine suture material is used or when multiple knots are needed.

Selection of suture materials

A surgeon `s training and experience dictate his or her choice of suture material and size, needle, stitches, and knot.

Important factors that are considered when selecting materials and procedures for surgery include the following:

Type and site of the operation.
Healing characteristics of the tissues involved.
Properties of the suture and needle.
Patient `s condition and likely recovery ability.

Incision

The incision is the surgical cut made to provide access to the site of the operation. The location, type, and extent of the incision is determined primarily by the patient`s diagnoses and the pathology and anatomy the surgeon expects to encounter.

When an incision is made, blood vessels are severed. Haemostasis, the stoppage of bleeding, can be achieved in several ways:

Strands of suture material, called ligatures, are used to tie off the incised blood vessels. Ligating clips can be used to ligate blood vessels.

Electrocautery, which causes coagulation of blood vessels by burning the open ends, may be preferred because of its speed and convenience.

Insertion of bone wax when bone has been cut.