

Featherlight

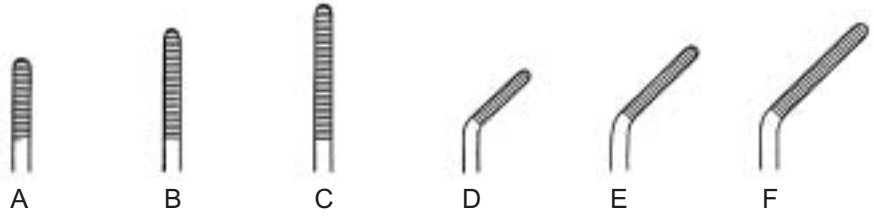


Fig.	Length mm / "	Jaw mm	Weight g	Closing Pressure g	Art.-No.
A	31 / 1 1/4	10	1.0	30	20-0200
B	35 / 1 1/4	14	1.0	30	20-0204
C	39 / 1 1/2	18	1.0	30	20-0208
D	30 / 1 1/4	10	1.0	30	20-0210
E	33 / 1 1/4	14	1.0	30	20-0214
F	36 / 1 1/4	18	1.0	30	20-0218

Diethrich

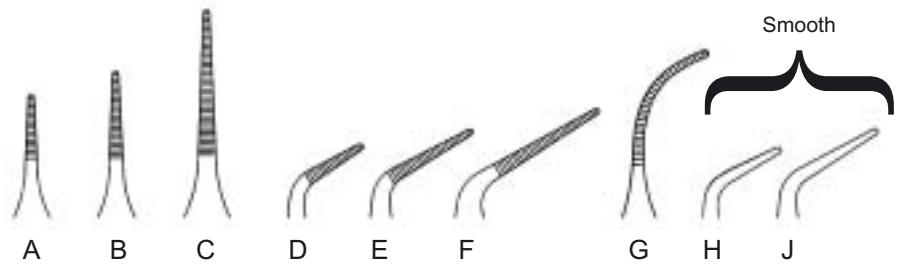


Fig.	Length mm / "	Jaw mm	Weight g	Closing Pressure g	Art.-No.
A	49 / 2	8	3.0	180	20-0270
B	53 / 2	12	3.0	180	20-0271
C	59 / 2 1/4	20	3.0	180	20-0272
D	43 / 1 1/2	8	3.0	180	20-0280
E	45 / 1 1/2	12	3.0	180	20-0281
F	50 / 2	20	3.0	180	20-0282
G	54 / 2	20	3.0	180	20-0283
H	43 / 1 1/2	13	3.0	180	20-0285
J	49 / 2	18	3.0	180	20-0286
A	49 / 2	8	3.0	80	20-0300
B	53 / 2	12	3.0	80	20-0301
C	59 / 2 1/4	20	3.0	80	20-0302
D	43 / 1 1/2	8	3.0	80	20-0310
E	45 / 1 1/2	12	3.0	80	20-0311
F	50 / 2	20	3.0	80	20-0312
G	54 / 2	20	3.0	80	20-0313
H	43 / 1 1/2	13	3.0	80	20-0315
J	49 / 2	18	3.0	80	20-0316

DeBakey-Diethrich

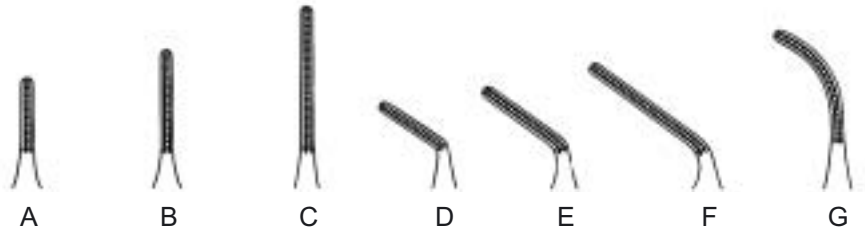


Fig.	Length mm / "	Jaw mm	Weight g	Closing Pressure g	Art.-No.
A	47 / 2	10	3.0	180	20-0318
B	51 / 2	14	3.0	180	20-0320
C	57 / 2¼	20	3.0	180	20-0322
D	44 / 1½	10	3.0	180	20-0319
E	46 / 1½	14	3.0	180	20-0321
F	49 / 2	20	3.0	180	20-0323
G	54 / 2	20	3.0	180	20-0324

Wickham

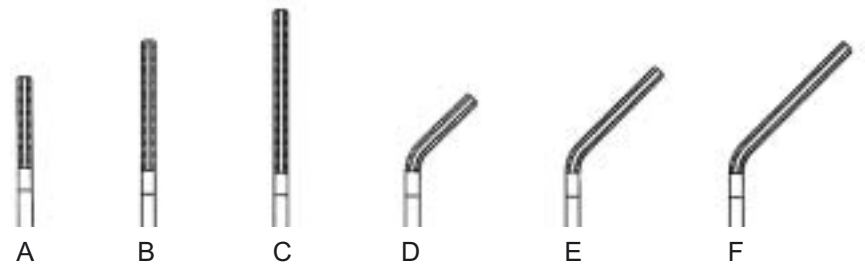


Fig.	Length mm / "	Jaw mm	Weight g	Closing Pressure g	Art.-No.
A	49 / 2	13	3.0	150	20-0340
B	54 / 2	18	3.0	150	20-0341
C	61 / 2¼	25	3.0	150	20-0342
D	47 / 2	13	3.0	150	20-0345
E	51 / 2	18	3.0	150	20-0346
F	55 / 2	25	3.0	150	20-0347

Wickham

Applying Forceps

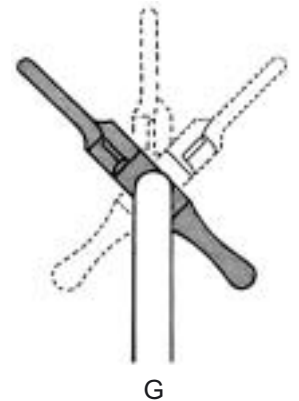
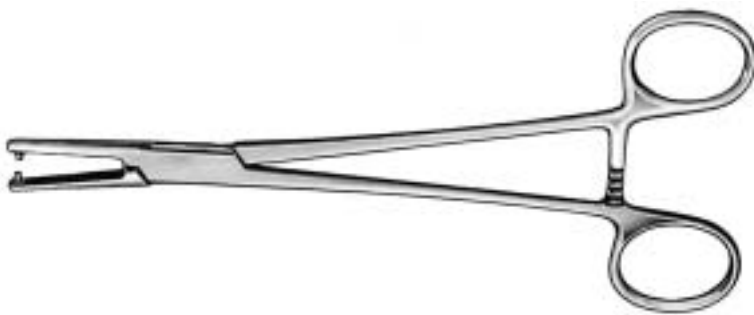


Fig.	Length (mm / ")	Art.-No.
G	230 / 9	20-0349

Weldon (Mini-Glover)

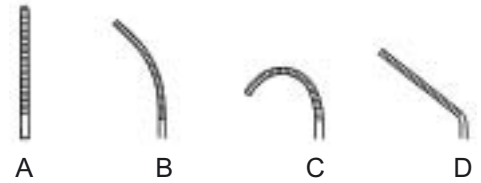


Fig.	Overall length mm / "	Jaw mm	Weight g	Art.-No.
A	35 / 1 1/4	14	1.2	20-0400
B	35 / 1 1/4	14	1.2	20-0401
C	35 / 1 1/4	14	1.2	20-0402
D	35 / 1 1/4	14	1.2	20-0403
A	45 / 1 1/2	17	1.6	20-0405
B	45 / 1 1/2	17	1.6	20-0406

Titanium (Mini-Glover)

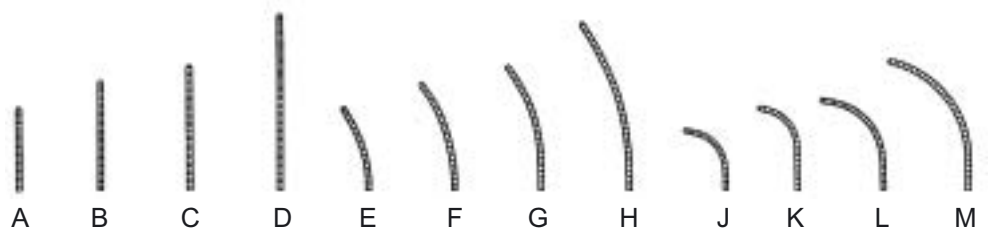


Fig.	Overall length mm / "	Jaw mm	Weight g	Type	Art.-No.
A	30 / 1 1/4	11	0.8	V	20-5450
A	30 / 1 1/4	11	0.8	A	20-5451
B	35 / 1 1/4	15	0.8	V	20-5452
B	35 / 1 1/4	15	0.8	A	20-5453
C	40 / 1 1/2	17	0.8	V	20-5454
C	40 / 1 1/2	17	0.8	A	20-5455
D	50 / 2	24	0.8	V	20-5456
D	50 / 2	24	0.8	A	20-5457
E	30 / 1 1/4	11	0.8	V	20-5460
E	30 / 1 1/4	11	0.8	A	20-5461
F	35 / 1 1/4	15	0.8	V	20-5462
F	35 / 1 1/4	15	0.8	A	20-5463
G	40 / 1 1/2	17	0.8	V	20-5464
G	40 / 1 1/2	17	0.8	A	20-5465
H	50 / 2	24	0.8	V	20-5466
H	50 / 2	24	0.8	A	20-5467
J	30 / 1 1/4	11	0.8	V	20-5470
J	30 / 1 1/4	11	0.8	A	20-5471
K	35 / 1 1/4	15	0.8	V	20-5472
K	35 / 1 1/4	15	0.8	A	20-5473
L	40 / 1 1/2	17	0.8	V	20-5474
L	40 / 1 1/2	17	0.8	A	20-5475
M	50 / 2	24	0.8	V	20-5476
M	50 / 2	24	0.8	A	20-5477

Available with low occlusion pressure (approx. 110 g) for veins [marked with V] and high occlusion pressure (approx. 220 g) for arteries [marked with A].

**Applying and Removing Forceps**

20-5440      23 cm / 9"

(not illustrated)

Glover (delicate)



closing pressure adjustable

delicate pattern

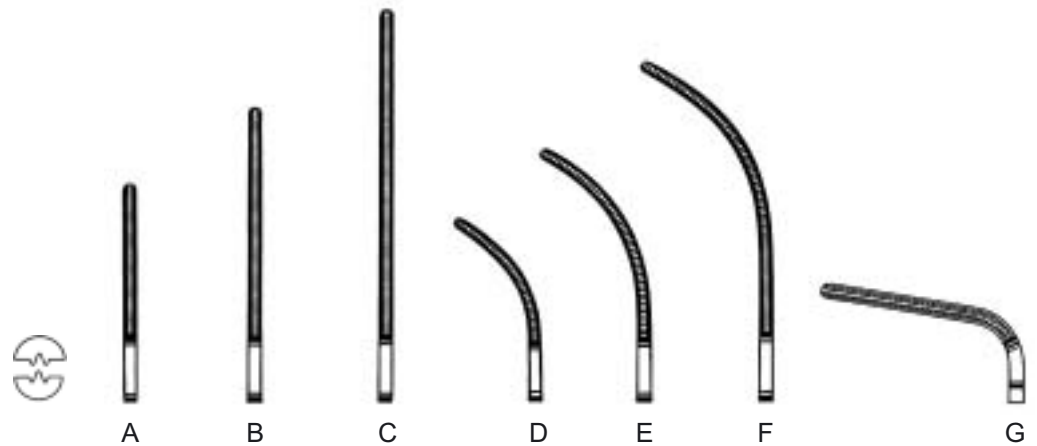
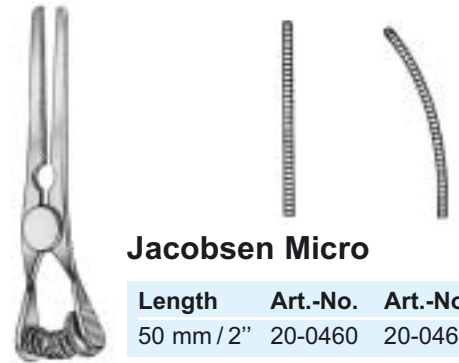


Fig.	Overall length mm / "	Jaw mm	Weight g	Art.-No.
A	50 / 2	20	5.0	20-0380
B	68 / 2 1/2	30	9.0	20-0381
C	85 / 3	43	12.0	20-0382
D	46 / 1 1/2	20	5.0	20-0390
E	64 / 2 1/4	30	9.0	20-0391
F	78 / 3	43	12.0	20-0392
G	55 / 2	25	7.0	20-0395



Jacobsen Micro

Length	Art.-No.	Art.-No.
50 mm / 2"	20-0460	20-0461



Satinsky

Length	Art.-No.
100 mm / 4"	20-0421



Carotid

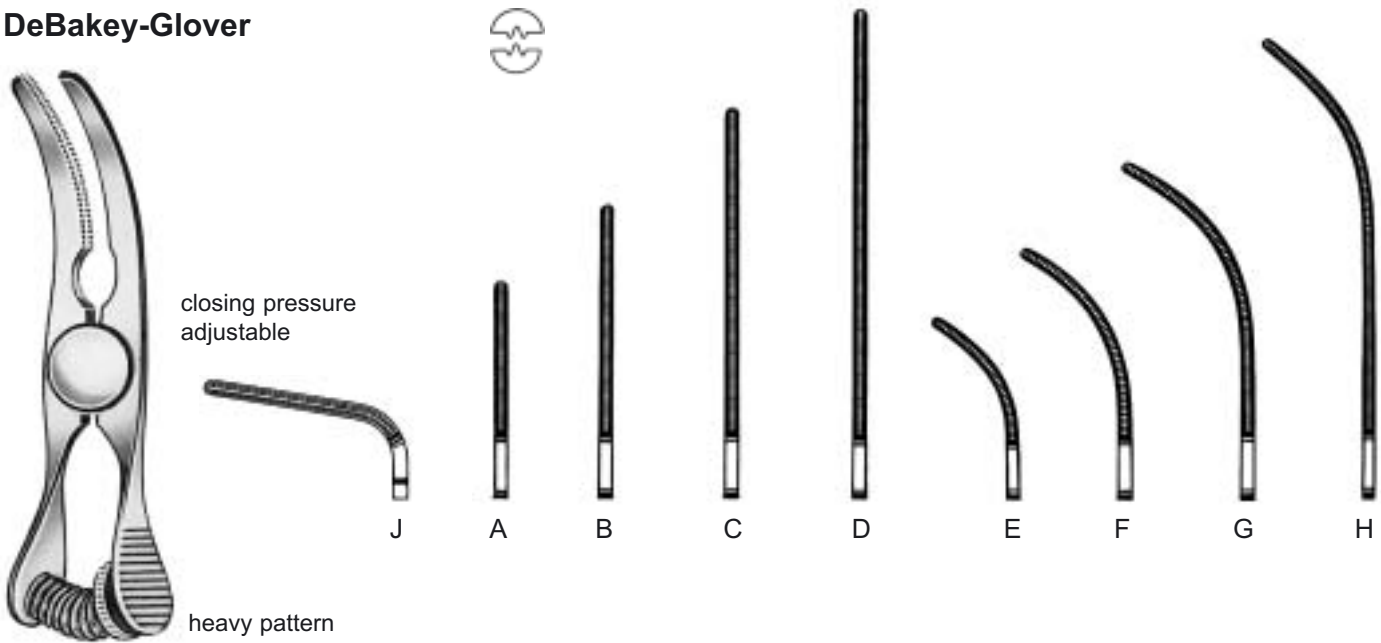
Length	Art.-No.
90 mm / 3 1/2	20-0422



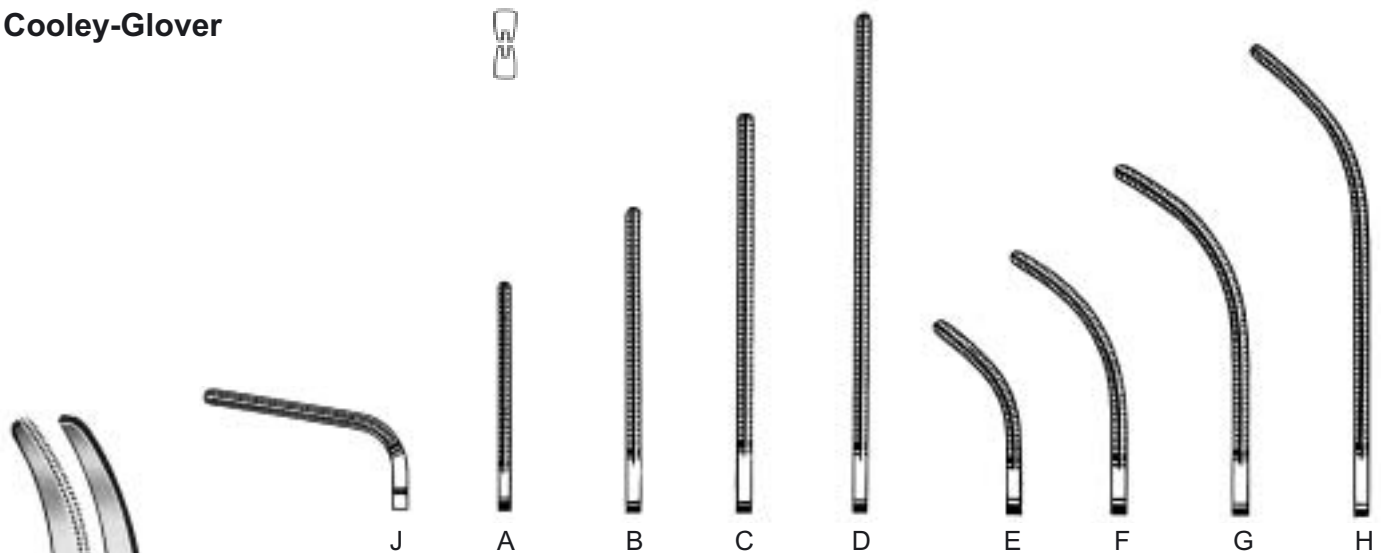
Satinsky

Length	Art.-No.
55 mm / 2"	20-0419
65 mm / 2 1/4	20-0420

DeBakey-Glover



Cooley-Glover



closing pressure adjustable

Fig.	Overall length mm / "	Jaw mm	Art.-No. DeBakey	Art.-No. Cooley
A	70 / 2 1/2	20	20-0450	20-0440
B	80 / 3	30	20-0451	20-0441
C	95 / 3 1/2	43	20-0452	20-0442
D	115 / 4 1/4	56	20-0453	20-0443
E	65 / 2 1/4	20	20-0455	20-0445
F	75 / 2 1/2	30	20-0456	20-0446
G	85 / 3	43	20-0457	20-0447
H	105 / 4	56	20-0458	20-0448
J	55 / 2	27	20-0459	20-0449

heavy pattern

■ TI = Titanium

DeBakey

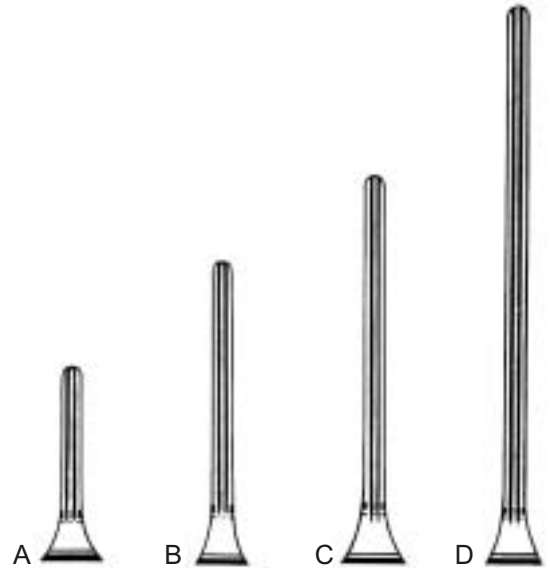


Fig.	Overall length (mm / ")	Jaw (mm)	Weight (g)	Art.-No.	Art.-No.
A	80 / 3	20	10	20-0350	20-0350.TI
B	90 / 3½	30	11	20-0351	20-0351.TI
C	105 / 4	45	12	20-0352	20-0352.TI
D	125 / 4½	68	14	20-0353	20-0353.TI

DeBakey

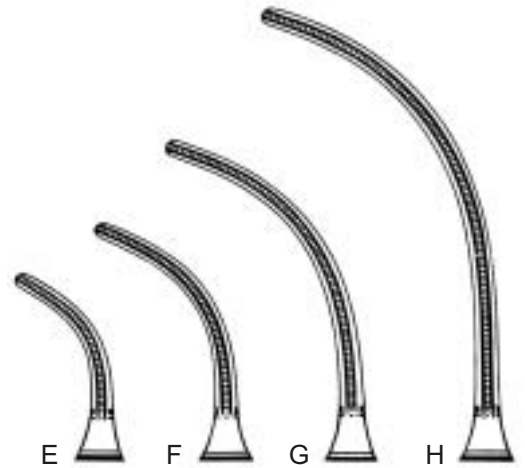
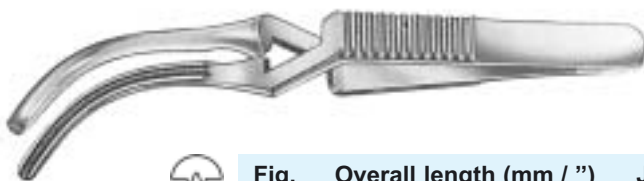


Fig.	Overall length (mm / ")	Jaw (mm)	Weight (g)	Art.-No.	Art.-No.
E	75 / 2½	20	10	20-0360	20-0360.TI
F	85 / 3	30	11	20-0361	20-0361.TI
G	95 / 3½	45	12	20-0362	20-0362.TI
H	115 / 4¼	68	14	20-0363	20-0363.TI

Santulli

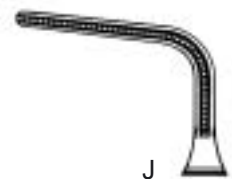
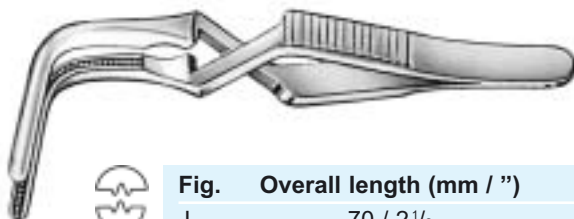


Fig.	Overall length (mm / ")	Jaw (mm)	Weight (g)	Art.-No.
J	70 / 2½	30	10	20-0375

Cooley

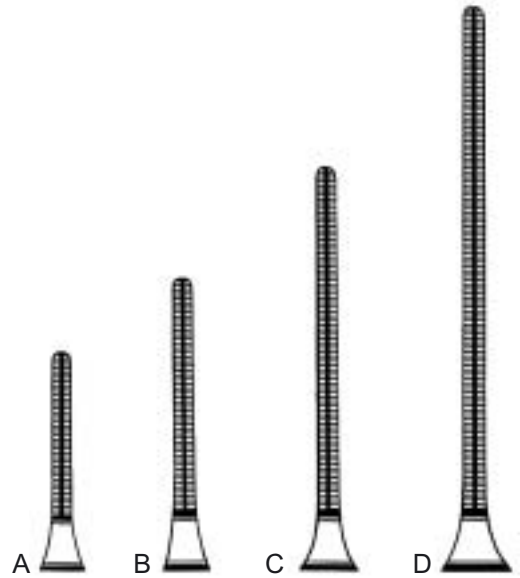


Fig.	Overall length (mm / ")	Jaw (mm)	Weight (g)	Art.-No.
A	80 / 3	20	10	20-0330
B	90 / 3½	30	11	20-0331
C	105 / 4	45	12	20-0332
D	125 / 4½	68	14	20-0333

Cooley

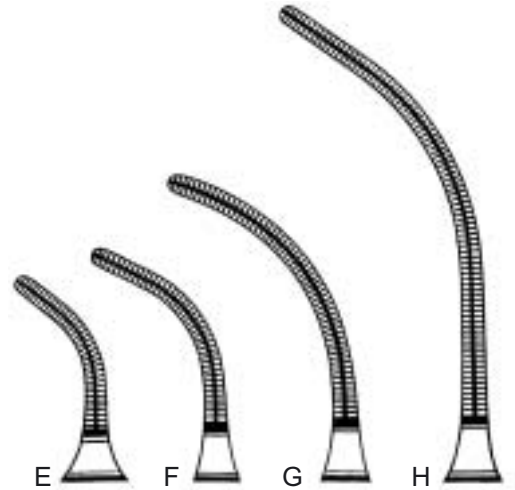
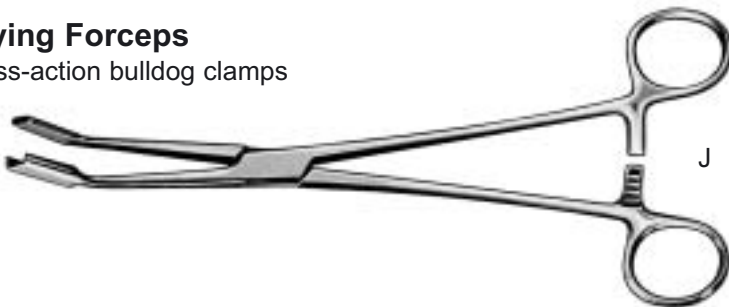


Fig.	Overall length (mm / ")	Jaw (mm)	Weight (g)	Art.-No.
E	75 / 2½	20	10	20-0336
F	85 / 3	30	11	20-0337
G	95 / 3½	45	12	20-0338
H	115 / 4¼	68	14	20-0339
J	240 / 9½			20-0378

Applying Forceps  
for cross-action bulldog clamps



Gregory "Soft"  
(Carotid)

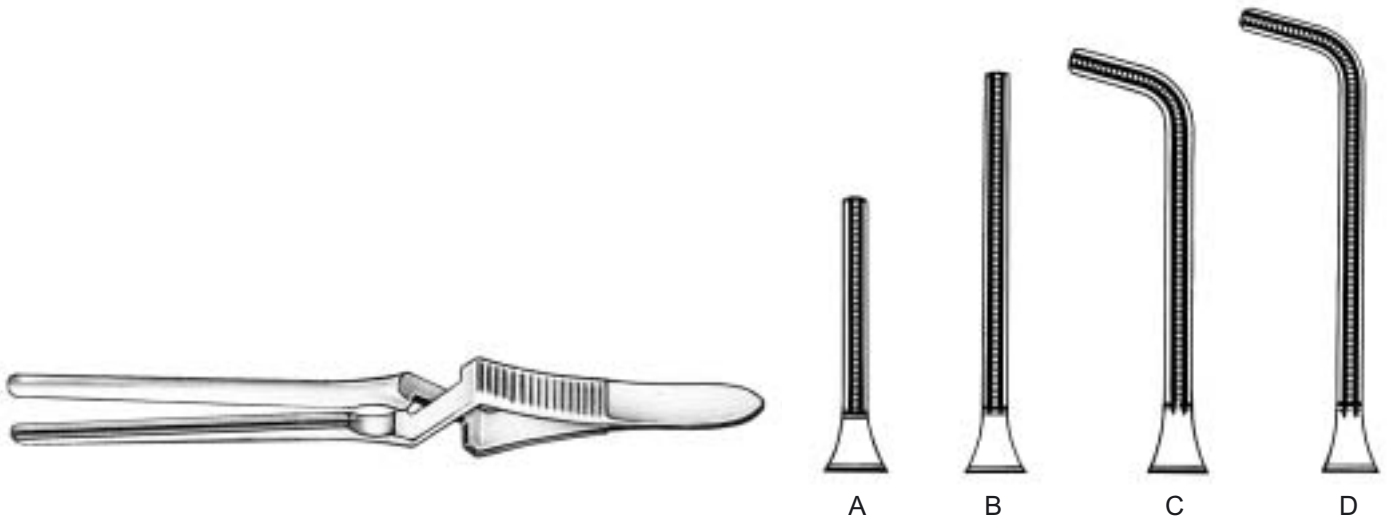


Fig.	Overall length (mm / ")	Jaw (mm)	Weight (g)	Art.-No.
A	90 / 3 1/2	27	11	20-0370
B	110 / 4 1/4	44	12	20-0371
C	105 / 4	55	12	20-0372
D	110 / 4 1/4	60	12	20-0373

Modified Gregory  
"Soft"

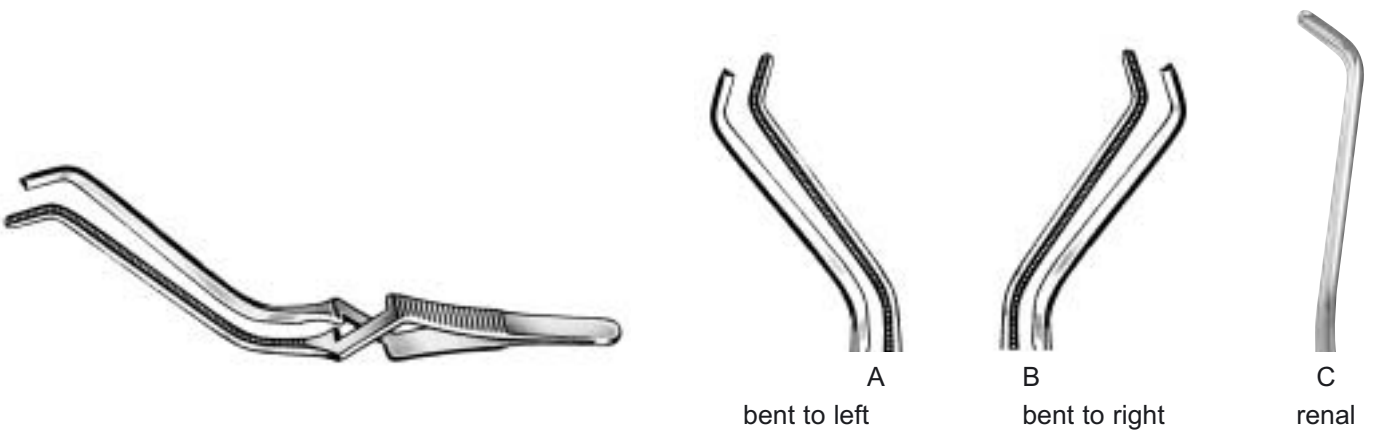
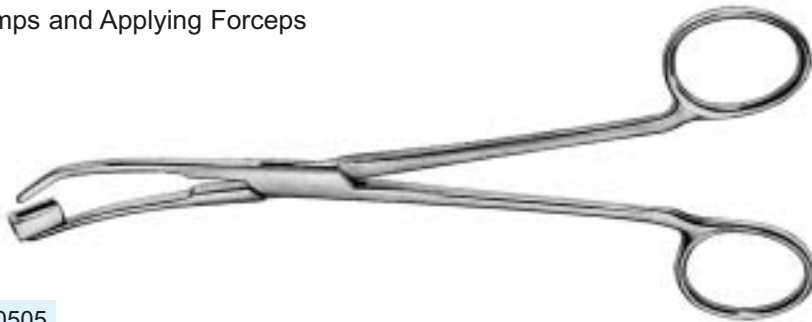


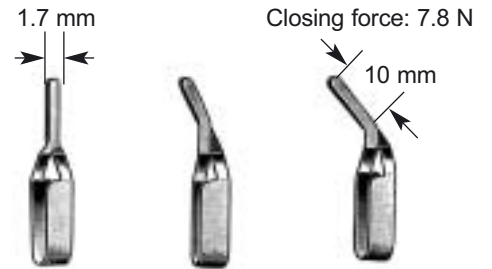
Fig.	Overall length (mm / ")	Jaw (mm)	Weight (g)	Art.-No.
A	110 / 4 1/4	60	12	20-0376
B	110 / 4 1/4	60	12	20-0377
C	125 / 4 1/2	70	13	20-0374

**Schwartz**

Clamps and Applying Forceps



20-0505



20-0500  
0°

20-0501  
25°

20-0502  
45°

**Wolf**

Coronary Intima Vein Protection Bulldog



For pressure controlled preparation of the saphenous vein for aortocoronary bypass, opens at approx. 80 mm HG and protects intima from pressure loading

35 mm / 1 1/4" 20-5000

**Johns-Hopkins**

Bulldog Clamps and Applying Forceps



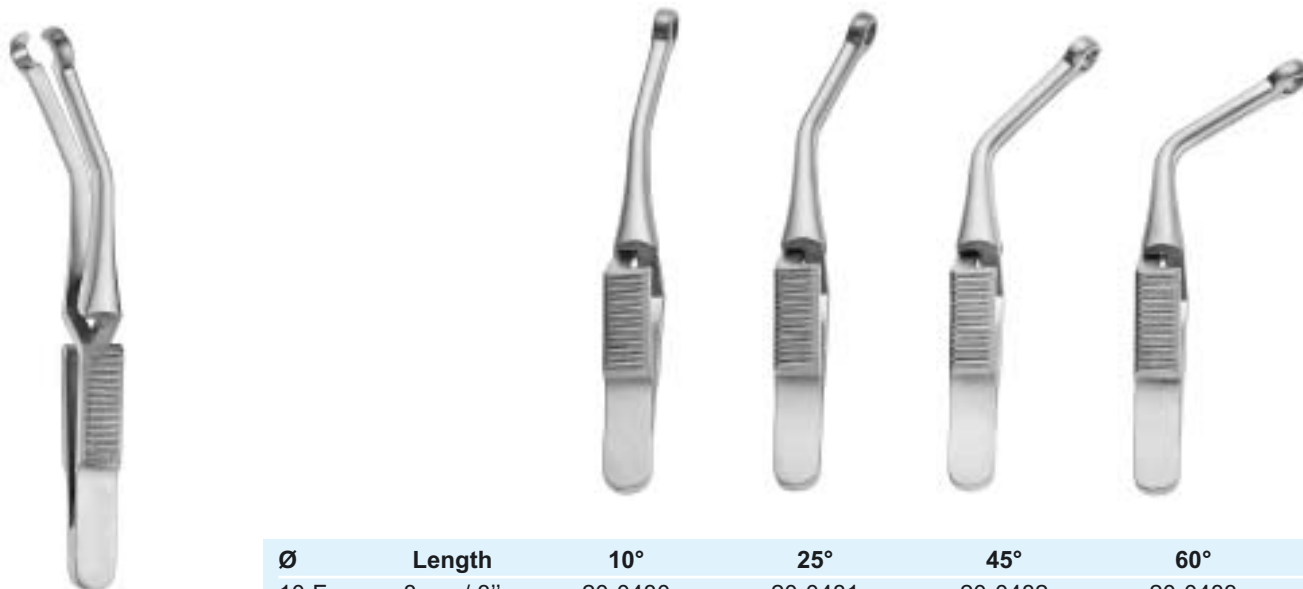
20-0378  
240 mm



Length	A	B
38 mm / 1 1/4"	20-0610	20-0620
51 mm / 2"	20-0611	20-0621
57 mm / 2 1/4"	20-0612	20-0622
63 mm / 2 1/4"	20-0613	20-0623
70 mm / 2 1/2"	20-0614	20-0624
75 mm / 2 1/2"	20-0615	20-0625
90 mm / 3 1/2"	20-0616	20-0626

**Shunt**

Bulldog Clamps



Ø	Length	10°	25°	45°	60°
10 Fr.	8 cm / 3"	20-0480	20-0481	20-0482	20-0483
12 Fr.	8 cm / 3"	20-0485.12	20-0486.12	20-0487.12	20-0488.12
14 Fr.	8 cm / 3"	20-0485.14	20-0486.14	20-0487.14	20-0488.14

**Mohr**

Glue Application Bulldog

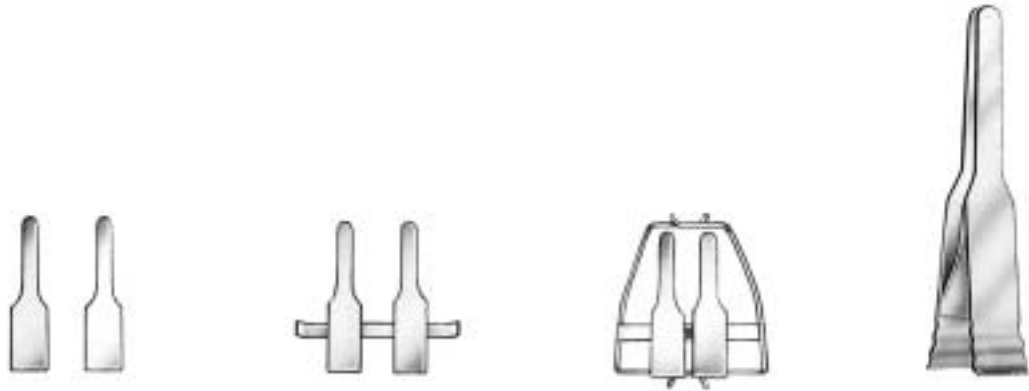


Used for application of gelatine glue during aortic dissection and fixation of the layers. Malleable cups allow for adjustment to vessel diameter.

20-5100	Smooth cup, 9 cm / 3 1/2"
20-5102	Smooth cup, 13 cm / 5"
20-5100.AR	Outer cup serrated, 9 cm / 3 1/2"

**Modified Acland**

Micro Vascular Clamps



Plain

A = for arteries, V = for veins

Fig.	Single Clamps (pair)		Approximator without frame, movable		Approximator with frame, movable		Vessel Size
	A	V	A	V	A	V	
1	75-0397	75-0396	75-0415	75-0414	75-0409	75-0408	0.4 – 1.0 mm
2	75-0399	75-0398	75-0417	75-0416	75-0411	75-0410	0.6 – 1.5 mm
3	75-0401	75-0400	75-0419	75-0418	75-0413	75-0412	1.0 – 2.2 mm
4		75-0325		75-0326			1.5 – 3.5 mm
5		75-0286		75-0287			2.0 – 5.0 mm

Black

1	75-0461	75-0462	75-0479	75-0480	75-0473	75-0474	0.4 – 1.0 mm
2	75-0463	75-0464	75-0481	75-0482	75-0475	75-0476	0.6 – 1.5 mm
3	75-0465	75-0466	75-0483	75-0484	75-0477	75-0478	1.0 – 2.2 mm
4		75-0329		75-0330			1.5 – 3.5 mm
5		75-0327		75-0328			2.0 – 5.0 mm

Applying Forceps	Fig. 1-2	75-0071 with catch	75-0072 without catch
	Fig. 3-4	75-0073 with catch	75-0074 without catch

**De Martel-Wolfson**

Anastomosis Clamps (Intestines and Stomach)



Anastomosis Clamps (Set / 3)		Closing Forceps		Clamp Holder	
Art.-No.	Length	Art.-No.	Length	Art.-No.	Length
07-0490	5 cm / 2"	07-0495	26 cm / 10 1/4"	07-0496	8 cm / 3 1/4"
07-0491	7 cm / 3"			07-0497	22.5 cm / 8 3/4"
07-0492	10 cm / 4"				

These clamps have been designed for temporary occlusion (identified by yellow coloured spring ends). A blade gripping surface with oblique serrations provides for a safe but careful gripping of vessels. Rigidly fixed pressure measure guarantees application without any risk.

**Biemer**

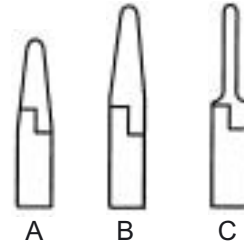


Fig.	Jaw opening mm	Jaw length mm	Closing force g	Vessel Size mm	Art.-No.
A	4.0	6.0	30 – 40	0.5 – 2.0	41-5600
B	5.0	9.0	30 – 40	0.5 – 2.0	41-5602
C	5.0	9.0	20 – 25	0.5 – 2.0	41-5604

**Applying Forceps**

Fig. A 41-5610 without catch, 14 cm / 5 1/2"  
 Fig. B, C 41-5612 with catch, 14 cm / 5 1/2"

**Mehdorn**

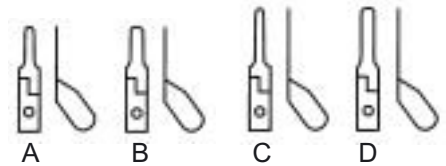
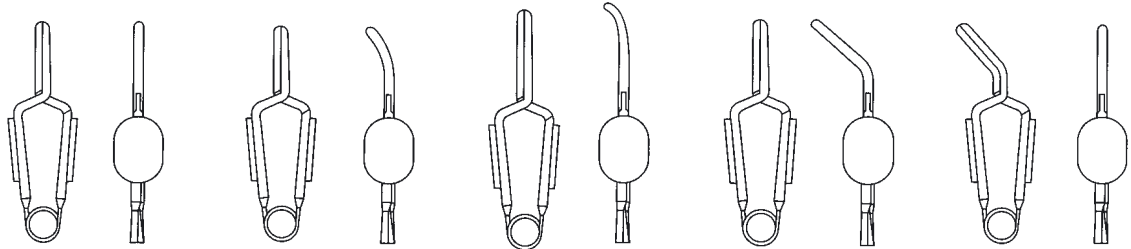
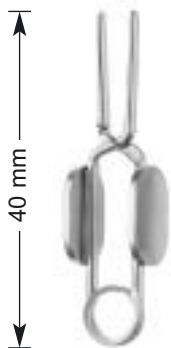


Fig.	Jaw length mm	Closing force g	Vessel Size mm	Art.-No.
A	4.0 x 1.0	10 – 15	0.5 – 1.5	41-5665
B	4.0 x 1.0	15 – 20	0.5 – 1.5	41-5666
C	6.0 x 1.4	10 – 15	0.5 – 1.5	41-5667
D	6.0 x 1.4	15 – 20	0.5 – 1.5	41-5668

**Applying Forceps**

Fig. A – D 41-5669 without catch, 15 cm / 6"  
 The position of the clip in the Applying Forceps can be varied.

**Mueller**



Art.-No.	Straight		Curved		Tips curved		Angled		Knee-bent	
Closing Force	41-5650	41-5651	41-5652	41-5653	41-5654	41-5655	41-5656	41-5657	41-5658	41-5659
	50 g	80 g	50 g	80 g	50 g	80 g	50 g	80 g	50 g	80 g

**Biemer-Mueller**

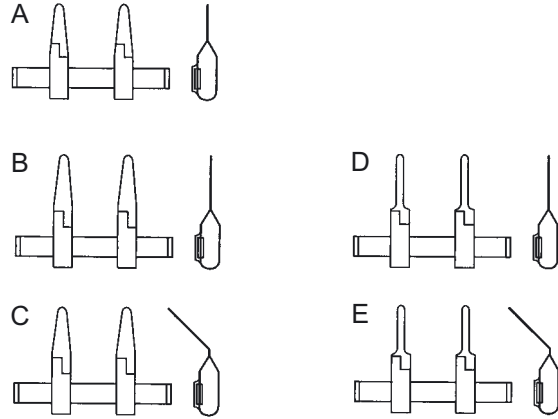


Fig.	Jaw opening mm	Jaw length mm	Closing force g	Vessel Size mm	Art.-No.
A	3.0	4.5	30 – 40	0.5 – 2.0	41-5605
B	5.0	9.0	30 – 40	0.5 – 2.0	41-5606
C	5.0	9.0	30 – 40	0.5 – 2.0	41-5607
D	5.0	9.0	30 – 40	0.5 – 2.0	41-5608
E	5.0	9.0	30 – 40	0.5 – 2.0	41-5609

**Applying Forceps**

Fig. A 41-5610 without catch, 14 cm / 5 1/2"  
 Fig. B – E 41-5612 with catch, 14 cm / 5 1/2"

**Mueller**

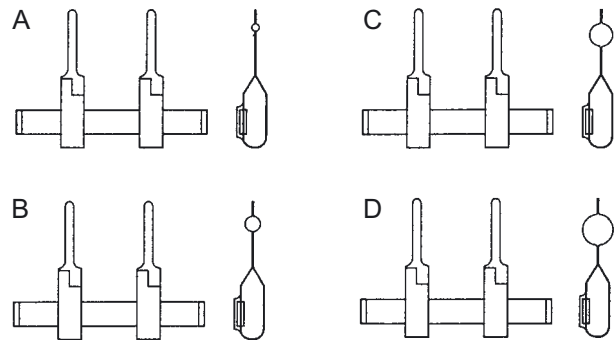


Fig.	Diameter mm	Closing force g	Vessel Size mm	Art.-No.
A	1.0	25 – 30	0.5 – 2.0	41-5621
B	2.0	25 – 30	0.5 – 2.0	41-5622
C	3.0	25 – 30	0.5 – 2.0	41-5623
D	4.0	25 – 30	0.5 – 2.0	41-5624

**Applying Forceps**

Fig. A 41-5610 without catch, 14 cm / 5 1/2"  
 Fig. B – D 41-5612 with catch, 14 cm / 5 1/2"

### Disposable Vessel Clamps

for Microsurgery

The clamping pressure of these disposable vessel clamps is always exact and reliable because these clamps are used only once. The danger of vessel damages is so reduced. The clamps having distinguishing colours and non-reflective surfaces. Artery clamps are yellow and vein clamps are green. Therefore they are easy to identify in the surgical field. The clamps will not reflect light during microscopy. A unique hemispheric design of jaw guarantees the atraumatic occlusion of arteries and veins and assures a secure non-slip occlusion. Single-use clamps are supplied in a sterile, double-sealed pouch, are low-cost and are very easy



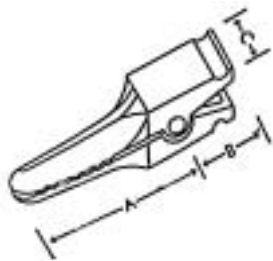
to handle. At the end of a procedure a count of the empty clamp pouches confirms the precise number of clamps used.

Arteries (yellow clamp)

Size Art.-No.	Vessel Ø	Length A	Length B	Width C	Distance D	Weight	Closing Pressure
20-0701	< 1 mm	10.0 mm	4.5 mm	2.5 mm	–	0.06 g	40 g/mm <sup>2</sup>
20-0703	1 – 2 mm	11.5 mm	5.5 mm	3.0 mm	–	0.12 g	60 g/mm <sup>2</sup>
20-0705	2 – 4 mm	15.0 mm	6.5 mm	3.5 mm	–	0.25 g	120 g/mm <sup>2</sup>

Veins (green clamp)

20-0711	< 1 mm	7.0 mm	4.0 mm	2.3 mm	–	0.03 g	15 g/mm <sup>2</sup>
20-0713	1 – 2 mm	10.0 mm	4.5 mm	2.5 mm	–	0.06 g	20 g/mm <sup>2</sup>
20-0715	2 – 4 mm	11.5 mm	5.5 mm	3.0 mm	–	0.12 g	30 g/mm <sup>2</sup>

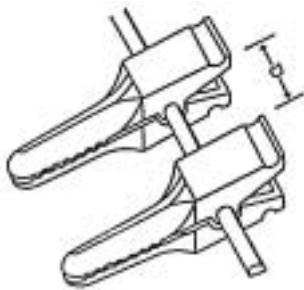


Arteries (yellow clamp)

Size Art.-No.	Vessel Ø	Length A	Length B	Width C	Distance D	Weight	Closing Pressure
20-0702	< 1 mm	10.0 mm	4.5 mm	2.5 mm	~ 7.5 mm	0.13 g	40 g/mm <sup>2</sup>
20-0704	1 – 2 mm	11.5 mm	5.5 mm	3.0 mm	~ 12.5 mm	0.25 g	60 g/mm <sup>2</sup>
20-0706	2 – 4 mm	15.0 mm	6.5 mm	3.5 mm	~ 15.0 mm	0.50 g	120 g/mm <sup>2</sup>

Veins (green clamp)

20-0712	< 1 mm	7.0 mm	4.0 mm	2.3 mm	~ 8.0 mm	0.06 g	15 g/mm <sup>2</sup>
20-0714	1 – 2 mm	10.0 mm	4.5 mm	2.5 mm	~ 7.5 mm	0.13 g	20 g/mm <sup>2</sup>
20-0716	2 – 4 mm	11.5 mm	5.5 mm	3.0 mm	~ 12.5 mm	0.25 g	30 g/mm <sup>2</sup>



### Disposable Bulldog Clamps



Art.-No.	Length	Color	Size	Jaw	Closing Pressure
00-2500	21 mm	red	small	straight	10–15 g
00-2510	22 mm	red	small	angled	10–15 g
00-2520	32 mm	white	medium	straight	25–30 g
00-2530	34 mm	white	medium	angled	25–30 g
00-2540	42 mm	blue	large	straight	50–60 g
00-2550	46 mm	blue	large	angled	50–60 g