



Medena[®]

Suction Technology

Wide suction sets for
professional surgery

- **No tissue grab**
- **No blockage in the suction instrument**
- **Constant high suction capacity**
- **Atraumatic suction**
- **Good visibility**
- **Stable but flexible**

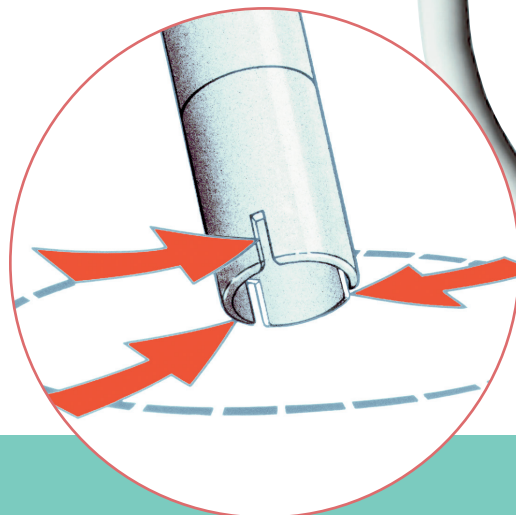
These are properties that may be demanded of a good suction instrument. Upon this, most of us agree. Opinions vary, however, on how the suction tip should be constructed in order to attain these qualities. For this reason Medena offers the widest range of high performance suction instruments on the market, focusing on two main principles – Slit Tip (Vällfors) and Maxi (double lumen).

Slit tip – Vällfors

The development of the Slit Tip is based on extensive practical and theoretical studies.^{1,2} The three slits of this suction tip allow the instrument, in principle, to rest against the base of the wound with reduced risk of tissue grab. The suction itself is primarily lateral, giving a clean and synoptic operating field. Slit Tip suction instruments have easy-to-grip handles that facilitate precision in the work performed. The tips are white, providing better visibility in deep wounds than transparent suction tips.

Tip with three slits

- minimize tissue grab
- gives constant high suction capacity
- gives good visibility of synoptic operating field

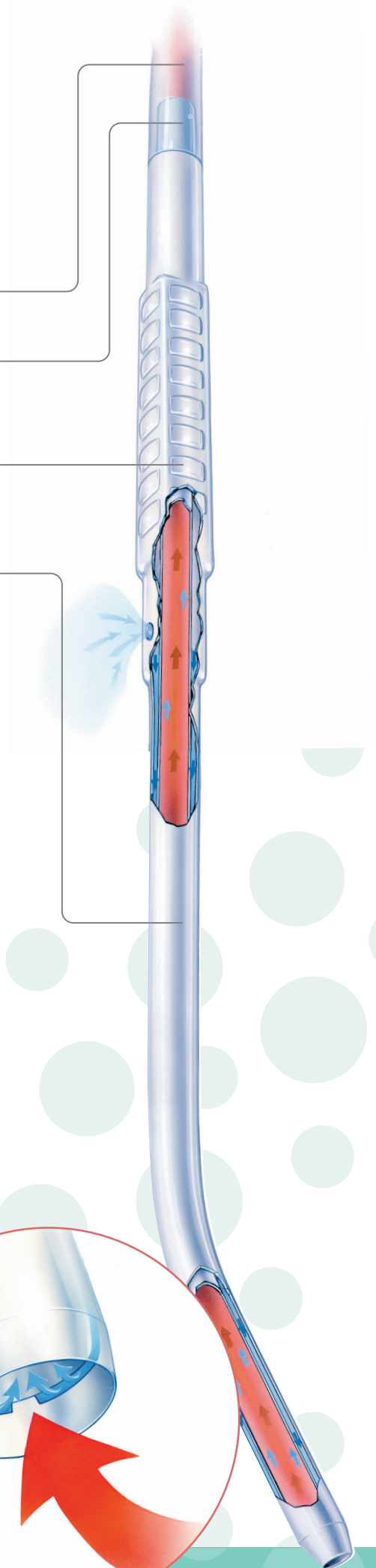


Stable tubing – won't collapse

No inner constrictions – good flow minimizing blockage

Easy-to-grip handles – stable and easy to handle

White tip – good visibility even in deep wounds



Maxi and Maxette

The Maxi principle combines high suction capacity with atraumatic fluid suction. The secret lies in the double tube. With the finger control hole open for normal suction, these tips yield the same capacity as standard suction instruments with closed control vents. The negative pressure at the tip is a mere 20 mmHg, making suction completely atraumatic. With the control hole closed, the flow capacity is enhanced.

Double lumen

- gentle suction
- less tissue grab
- high suction capacity



For the best care of the patient – and the best medical care

Suction instruments belong to a large group of products that are vital yet draw little attention to themselves. Functionality – good functionality – is a must.

A surgical suction instrument must be easy to use, and not cause clogging, pooling or other problems. It must also provide the necessary amount of suction – without tissue grab. In addition, it must be designed to allow easy access in wounds, to keep the surgical wound clean, and to do this without getting in the way or obstructing vision.

Such suction instruments are not only good for patients, but also for the surgical staff who need them to do a first class job. This means they are also instrumental in providing quality medical care in general.

The construction of Medena products is founded on many years of clinical experience and extensive testing. The production process is permeated by a quality and hygiene based thinking that leaves nothing to chance.

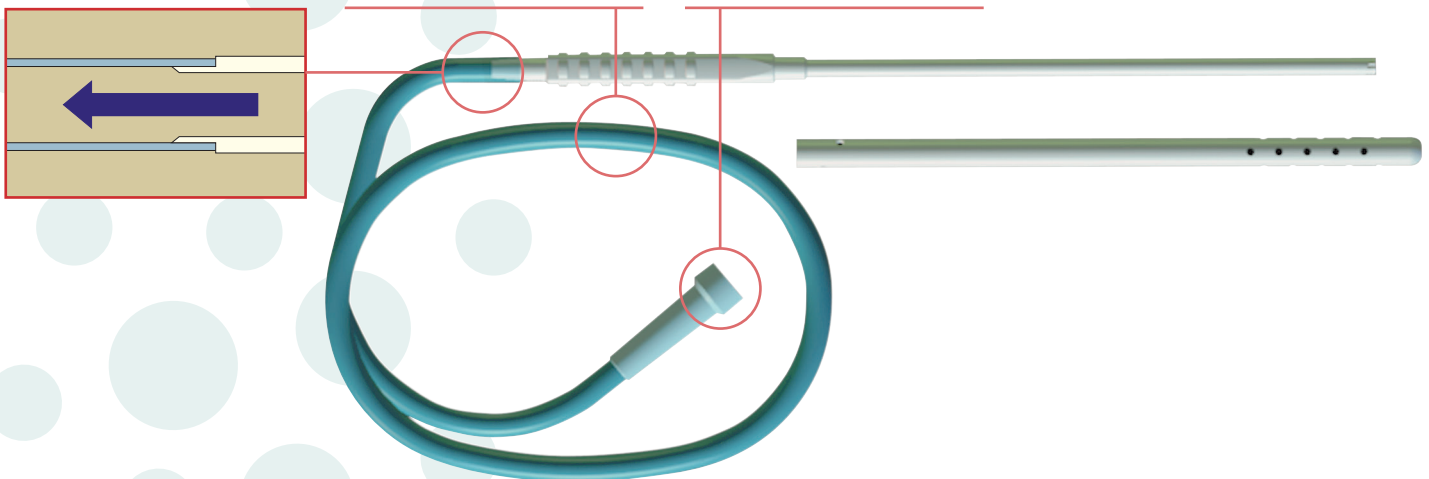
The product range includes both broad and specialized products to meet all needs. The following pages show that Medena suction instruments are available in several types and models, in complete sets or individual components.

Components

No inner "shoulders". The connection between the suction tip and tubing is designed to produce the least possible turbulence.






The extra long tube reduces the need for extra tube couplings.

The connector is designed to reduce the risk of turbulence in the connection with the suction container.



Product Range

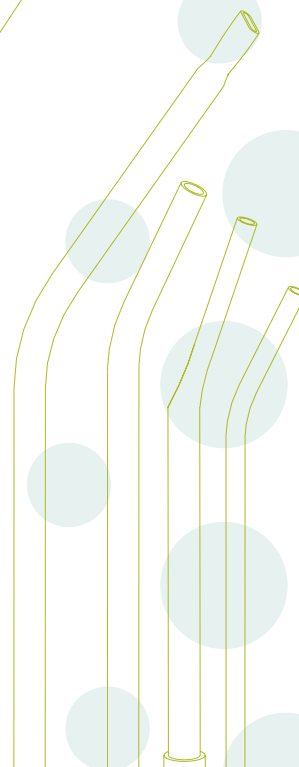
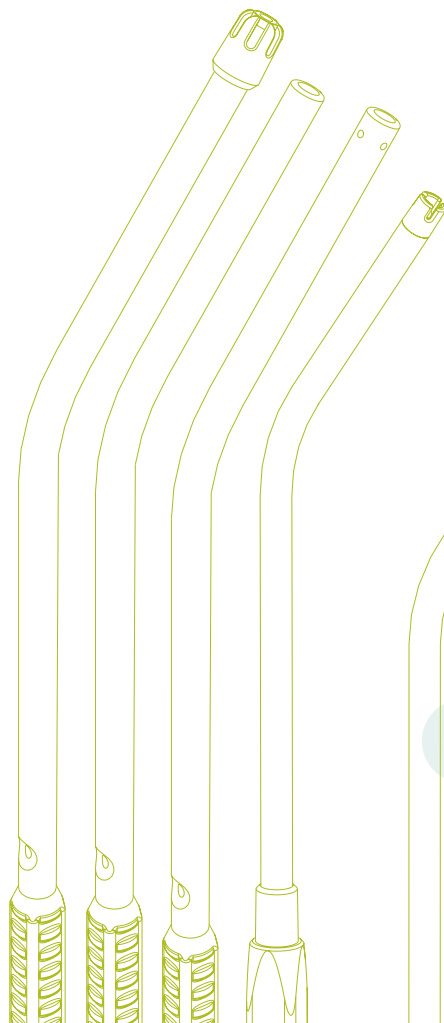
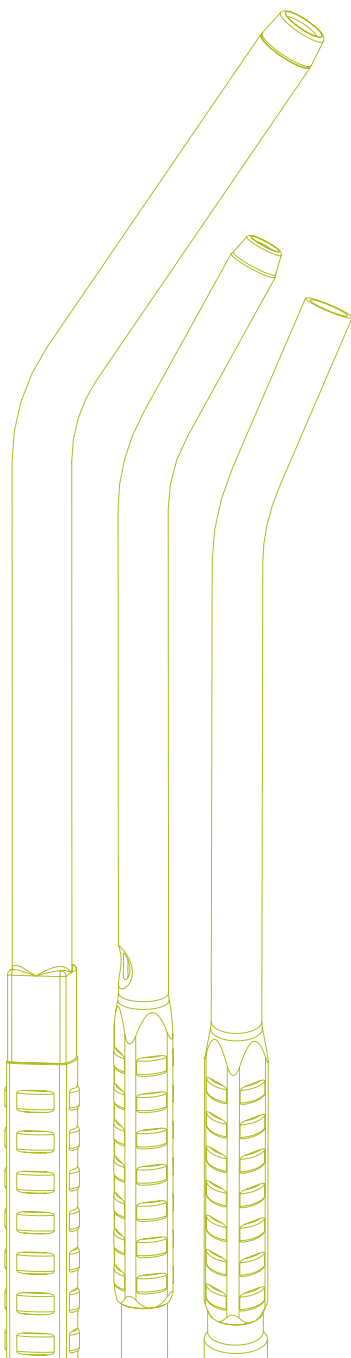
Suction instruments/Suction sets

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Type of Tip

Slit Tip
(Vällfors)



Maxi



Standard
Circular



Tapered



Flat

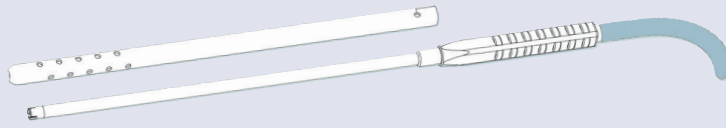


Four-hole



Sump

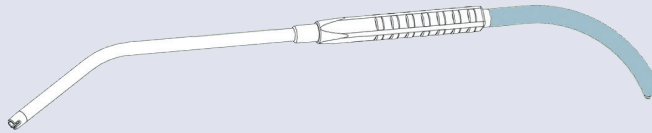




Poole/Rissler



Ref.	Suction instrument			Tubing		Quantity
	Ø	Length	Finger Controlhole	Ø	Length	
68142	5x6,2 mm	31 cm	-	-	-	100
68145				5,5x8 mm	2,0 m	2x45
68146				5,5x8 mm	3,5 m	2x30



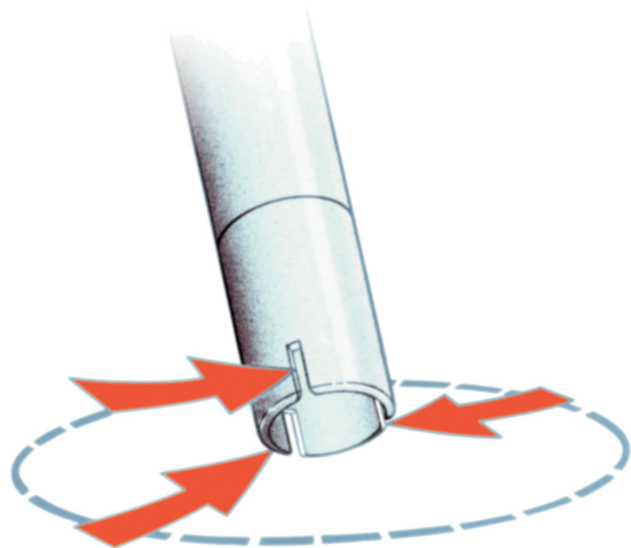
Midi

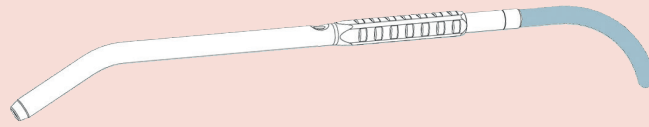


Ref.	Suction instrument			Tubing		Quantity
	Ø	Length	Finger Controlhole	Ø	Length	
68132	5x6,2 mm	26 cm	-	5,5x8 mm	2,0 m	2x50
68133					3,5 m	2x35

Tip with three slits

- minimize tissue grab
- gives constant high suction capacity
- gives good visibility of synoptic operating field

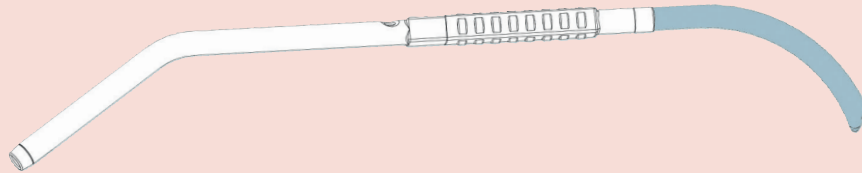




Maxette



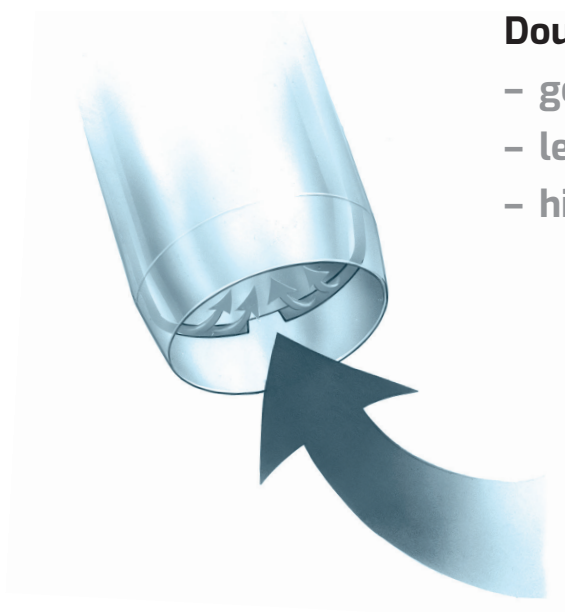
Ref.	Suction instrument			Tubing		
	Ø	Length	Finger Controlhole	Ø	Length	Quantity
68176	5x10 mm	27 cm	yes	5,5x8 mm	2,0 m	2x45
68177					3,5 m	2x30



Maxi

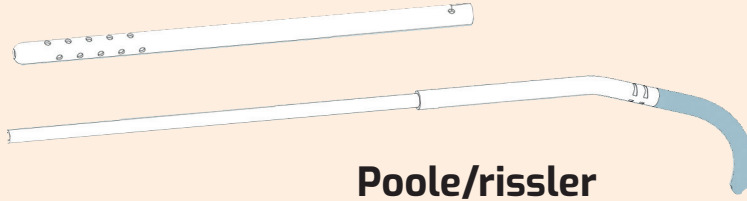


Ref.	Suction instrument			Tubing		
	Ø	Length	Finger Controlhole	Ø	Length	Quantity
68171	7x11,6 mm	33 cm	yes	7,8x10,7 mm	2,0 m	2x30
68172					3,5 m	2x20



Double lumen

- gentle suction
- less tissue grab
- high suction capacity



Poole/rissler



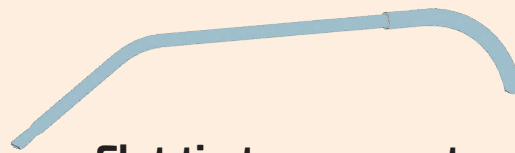
Ref.	Suction instrument			Tubing		Quantity
	Ø	Length	Finger Controlhole	Ø	Length	
68100	4x6,2 mm	33 cm	-	5,5x8 mm	2,0 m	2x45
68107					3,5 m	2x30
68119			yes		2,0 m	2x45



Flat tip



Ref.	Suction instrument			Tubing		Quantity
	Ø	Length	Finger Controlhole	Ø	Length	
68103	5x6,2 mm	22 cm	-	5,5x8 mm	2,0 m	2x50
68128					3,5 m	2x35



Flat tip transparent



Ref.	Suction instrument			Tubing		Quantity
	Ø	Length	Finger Controlhole	Ø	Length	
68105	4,1x5,8 mm	22 cm	-	5,5x8 mm	2,0 m	2x50



Tapered tip



Ref.	Suction instrument			Tubing		Quantity
	Ø	Length	Finger Controlhole	Ø	Length	
68104	5x6,2 mm	21 cm	yes	5,5x8 mm	2,0 m	2x50
68129					3,5 m	2x35



Tapered tip - mini



Ref.	Suction instrument			Tubing		Quantity
	Ø	Length	Finger Controlhole	Ø	Length	
68110	5x6,2 mm	12 cm	-	5,5x8 mm	2,0 m	2x50
68131					3,5 m	2x35



Double bent



Ref.	Suction instrument			Tubing		Quantity
	Ø	Length	Finger Controlhole	Ø	Length	
68102	5x6,2 mm	22 cm	-	5,5x8 mm	2,0 m	2x50
68113					3,5 m	2x35



Double bent



Ref.	Suction instrument			Tubing		Quantity
	Ø	Length	Finger Controlhole	Ø	Length	
68120	5x6,2 mm	17 cm	-	-	-	100
68112				5,5x8 mm	2,0 m	2x50



Double bent



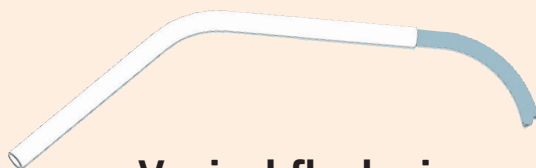
Ref.	Suction instrument			Tubing		Quantity
	Ø	Length	Finger Controlhole	Ø	Length	
68126	3x4,0 mm	17 cm	-	-	-	100
68118				5,5x8 mm	2,0 m	2x50
68209				5,5x8 mm	3,5 m	2x35



Rectoscope suction



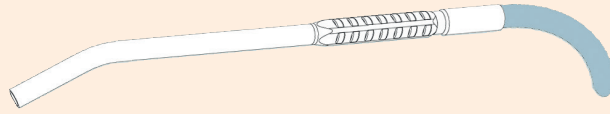
Ref.	Suction instrument			Tubing		Quantity
	Ø	Length	Finger Controlhole	Ø	Length	
68152	5x6,2 mm	40 (47) cm	-	5,5x8 mm	2,0 m	2x45



Vaginal flush pipe



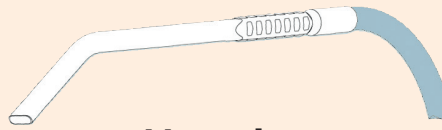
Ref.	Suction instrument			Tubing		Quantity
	Ø	Length	Finger Controlhole	Ø	Length	
68159	8x10 mm	22 cm	-	5,5x8 mm	2,0 m	2x50



Mega bent



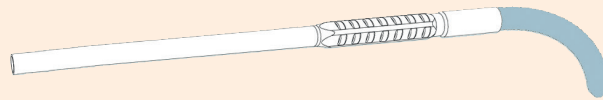
Ref.	Suction instrument			Tube		Quantity
	Ø	Length	Finger Controlhole	Ø	Length	
68285	8x10 mm	25 cm	–	7,3x10 mm	2,0 m	2x35



Mega bent



Ref.	Suction instrument			Tube		Quantity
	Ø	Length	Finger Controlhole	Ø	Length	
68287	8x10 mm	25 cm	–	7,3x10 mm	2,0 m	2x35



Mega straight



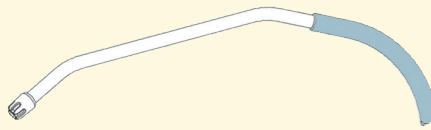
Ref.	Suction instrument			Tube		Quantity
	Ø	Length	Finger Controlhole	Ø	Length	
68295	8x10 mm	25 cm	–	7,3x10 mm	3,5 m	2x30



Sump



Ref.	Suction instrument			Tube		Quantity
	∅	Length	Finger Controlhole	∅	Length	
68256	4x6 mm	25 cm	yes	5,5x8 mm	2,0 m	2x50



Sump double bent



Ref.	Suction instrument			Tube		Quantity
	∅	Length	Finger Controlhole	∅	Length	
68155	4x6 mm	17 cm	—	5,5x8 mm	2,0 m	2x50



Four-hole



Ref.	Suction instrument			Tube		Quantity
	∅	Length	Finger Controlhole	∅	Length	
68258	4x6 mm	25 cm	yes	5,5x8 mm	2,0 m	2x50
68259			—			



Plain



Ref.	Suction instrument			Tube		Quantity
	∅	Length	Finger Controlhole	∅	Length	
68261	4x6 mm	25 cm	—	5,5x8 mm	2,0 m	2x50



Pooler/rissler



	Ref.	Ø	Length	Finger Controlhole	Quantity
POOLE/RISSLER	68142	5x6,2 mm	31 cm	—	100



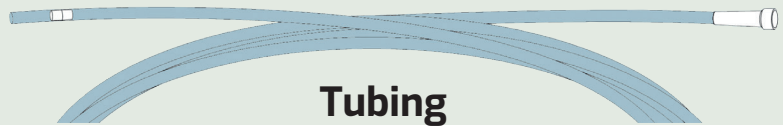
Double bent thick



Double bent thin



ENT/dental

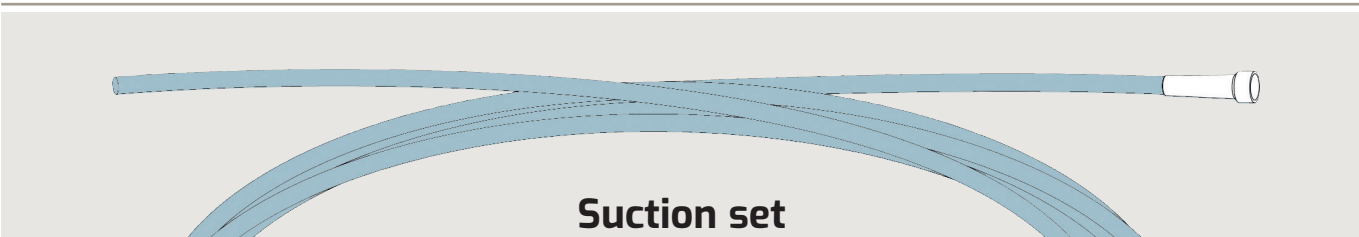


Tubing



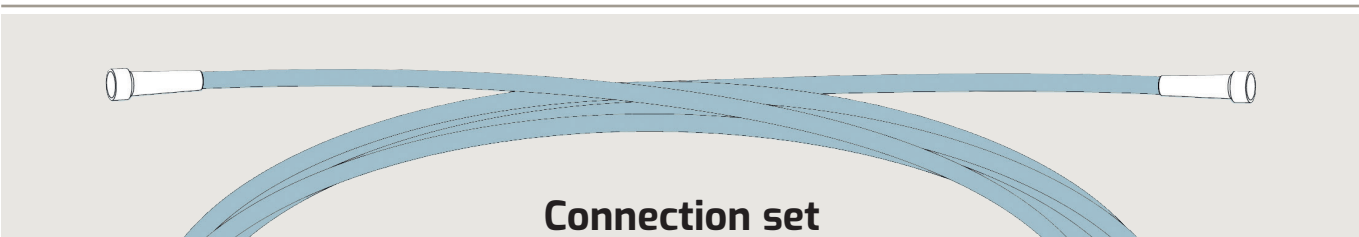
	Ref.	Ø	Length	Finger Controlhole	Quantity
DOUBLE BENT THICK	68120	5x6,2 mm	17 cm	—	100
DOUBLE BENT THIN	68126	3x4 mm			
ENT/DENTAL	68124	2x3 mm			
	68125	2,5x3,5 mm			

	Ref.	Front end	Back end	Ø	Length	Quantity
TUBING	68108	Soft coupling	Cone	5,5x8 mm	2,0 m	2x50
	68130				3,5 m	2x35



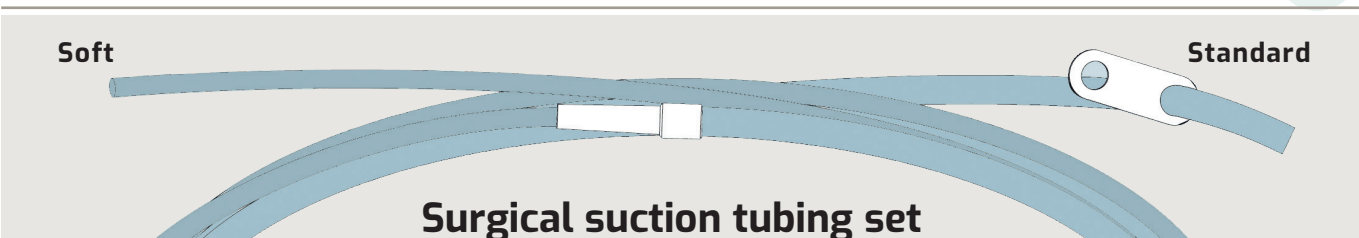
Suction set

Ref.	Front end	Back end	Ø	Length	Quantity
68121	Square cut	Cone	5,5x8 mm	2,0 m	2x50



Connection set

Ref.	Front end	Back end	Ø	Length	Quantity
68167	Cone	Cone	5,5x8 mm	2,0 m	2x50
68115				3,5 m	2x35

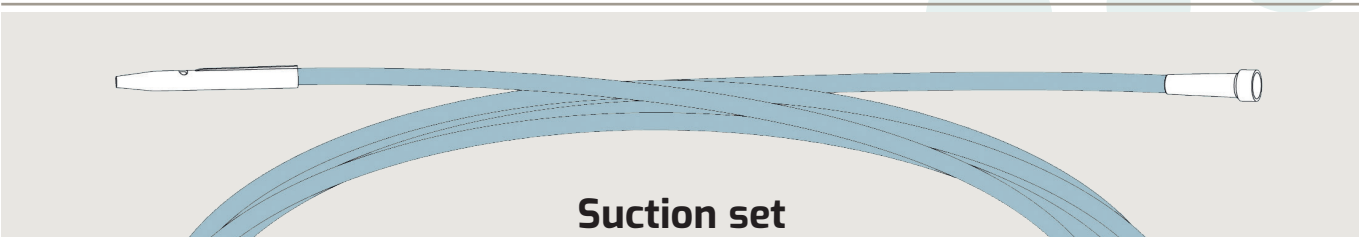


Soft

Standard

Surgical suction tubing set

Ref.	Front end	Back end	Ø	Length	Quantity
68157	Square cut		6x8,6 mm	1,0 m	2x20
		Square cut	9,7x13,5 mm	2,5 m	



Suction set

Ref.	Front end	Back end	Ø	Length	Quantity
68106	Coupling nipple	Cone	5,5x8 mm	2,0 m	2x50
68114				3,5 m	2x35
68207	Coupling nipple with finger control hole			2,0 m	2x50

Ref.	page	Cross references (Recommended)
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68146.....	1	
68152.....	4	
68155.....	6	
68157.....	8	
68159.....	4	
68167.....	8	
68171.....	2	
68172.....	2	
68176.....	2	
68177.....	2	
68207.....	8	
68209.....	4	
68256.....	6	
68258.....	6	
68259.....	6	
68261.....	6	
68285.....	5	
68287.....	5	
68295.....	5	

Description

Applications

Medena suction instruments are available for most types of surgery, e.g., general surgery, vascular, plastic, oral, dental, orthopedic, gynecological, urological and rectoscopic surgery.

Material

The tips, tubes, connectors and other components are made of PVC. DEHT/DOTP which are non-phthalates, will replace DEHP as a plasticizer in the tube during 2022.

Packaging

Both complete suction sets and individual components are supplied sterile and double wrapped – an inner plastic bag and outer, peel open, pouch. The outer, peel open, pouch is transparent plastic on one side and paper, complete with full product identification, on the other. The paper is specially coated to ensure that it is airtight and gives fibre-free opening. The peel open pouches are packed in corrugated cardboard transport cartons (575x385x410) with tear-strip opening and inner partition to minimize the risk of damage to either product or pouches.

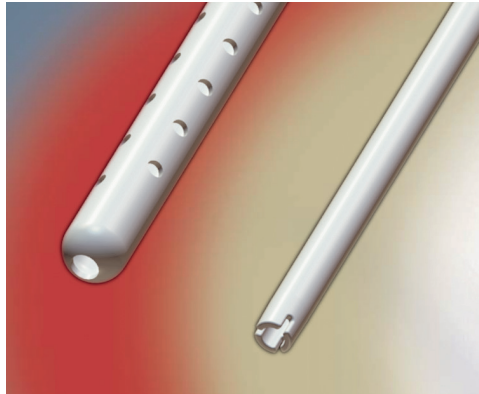
Sterilization

Mediplast product manufacturing adheres to a certified quality system in accordance with 14001:2015 and ISO 13485:2016. Products are presterilized with Ethylene Oxide.

References

1. Vallfors, B., Abstract: Optimal suction system for dissection work in surgery. *Acta Chir Scand*, 1976. 142(1): p. 94-6.
2. Laabs, W.A. and H.G. Appel, Atraumatic aspirators. *Chirurgische Praxis*, 2002. 59(3): p. 373-379. In German
3. Ray, C.D. and R. Levinson, Abstract: Noise pollution in the operating room: a hazard to surgeons, personnel, and patients. *J Spinal Disord*, 1992. 5(4): p. 485-8.
4. Azizi, J., et al. Abstract, Uphill grime: process improvement in surgical instrument cleaning. *Aorn j*, 2012. 96(2): p. 152-62.
5. Robinson, A.H., et al., Suction tip contamination in the ultraclean-air operating theatre. *Ann R Coll Surg Engl*, 1993. 75(4): p. 254-6.
6. Woodey, R., et al., Correspondence: A dangerous problem with plastic Yankauer suckers. *Anaesth Intensive Care*, 1995. 23(4): p. 519-20.





Advanced Suction Instruments

The Medena product range of surgical suction instruments is both broad and specialized to suit all atraumatic fluid suction needs in any surgical procedure. The range includes separate tips and tubing as well as complete, ready-to-use, suction sets. Suction tips are available in different models so Medena has a solution for every type of surgery, regardless of whether you prefer the Slit Tip (Vällfors) or Maxi (with double lumen) principle. The range also includes a number of indication-adapted speciality products.

The Medena range of highperformance, atraumatic fluid suction instruments are proudly delivered to you by Mediplast. Mediplast emphasizes on products that help to provide the patient with first class care at the same time as providing superior design to the user.