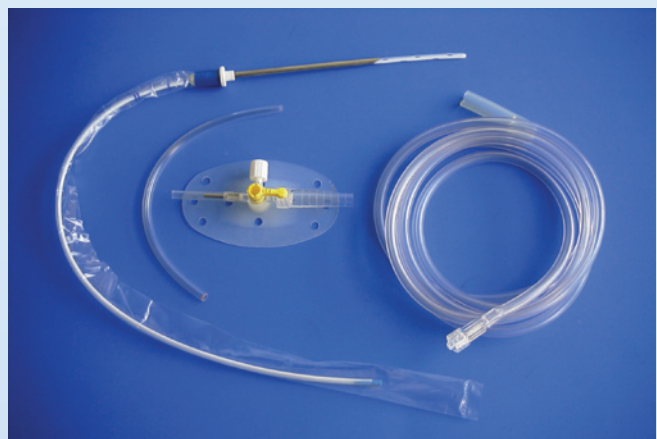
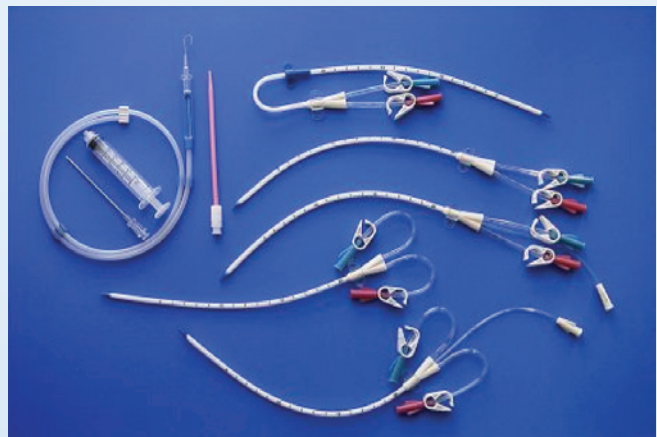


# intra

special catheters



## Contents

<b>Arterial catheter - Seldinger-technique .....</b>	<b>3</b>
MICROSELD - PTFE .....	3
MICROSELD - PEBAX .....	4
MICROSELD-VENT .....	5
<b>Central venous catheter .....</b>	<b>6</b>
Venoseld 1-lumen .....	6
DUOCATH / TRILUCATH / QUADROCATH .....	7
DUOCATH / TRILUCATH for hemodialysis .....	8
<b>Introducer set.....</b>	<b>9</b>
INTRADESILET - STANDARD .....	9
INTRADESILET - PEEL .....	10
INTRADESILET - INTRADUCER .....	11
<b>Flow-directed balloon-tipped catheter.....</b>	<b>12</b>
INTRATHERMODIN.....	12
<b>Guide wires .....</b>	<b>13</b>
<b>Monitoring .....</b>	<b>14</b>
Monitoring-set.....	14
Accessories for invasive monitoring.....	15
PRESSURE DOME .....	15
FLUSH DEVICE.....	15
<b>Connecting and measuring catheter .....</b>	<b>16</b>
<b>Stopcocks.....</b>	<b>17</b>
<b>Manifolds .....</b>	<b>18</b>
<b>Manifold systems .....</b>	<b>19</b>
Manifold systems Intramultilock.....	19
intra-manifold-distributor-system .....	19
Accessories .....	20
<b>High pressure lines .....</b>	<b>21</b>
<b>Pericardial set.....</b>	<b>22</b>
<b>Thoracic catheter .....</b>	<b>23</b>
PNEUMOCATH .....	23
NEO-PNEUMOCATH .....	24
PNEUMOCATH / NEO-PNEUMOCATH - fix .....	25
PNEUMOCATH - Intrasplit .....	26
ONKO-PNEUMOCATH.....	26
THORACENTESIS .....	27
Accessories.....	28
<b>Double-Telescope-Catheter .....</b>	<b>29</b>
intra-Bronch.....	29
<b>Temporary Leads / Electrophysiology .....</b>	<b>30</b>
Intraelektrode Bipolar.....	30
<b>Implantable port.....</b>	<b>31</b>
<b>Vessel surgery.....</b>	<b>32</b>
Balloon catheters .....	32
Disposable-Vein-Stripper .....	33
<b>Index.....</b>	<b>34</b>
<b>Information.....</b>	<b>34</b>

## Arterial catheter - Seldinger-technique

### MICROSELD<sup>®</sup> - PTFE

#### Radiopaque arterial catheter for measurement and diagnosis

MICROSELD<sup>®</sup> is suited for non-traumatic puncture of peripheral arteries for safe and complication-free positioning. It can be applied for any operation where a continuous blood pressure monitoring in anaesthesia and internal medicine is required and vessel damage or bleeding is to be eliminated, especially for arteria radialis, arteria brachialis and arteria femoralis.

MICROSELD<sup>®</sup> is also suited for monitoring of the heart function, circulation and lung function control as well as for sampling of blood gas. The used biocompatible Teflon material avoids deposition of any kind of blood ingredients such as fibrin, erythrocytes and leucocytes.

#### Advantages:

MICROSELD<sup>®</sup> is particularly suited for long-term-monitoring of the catheter over 48 hours.



#### Content

- Puncture needle with transparent handle
- Safety guide wire with flexible tip 3 cm
- Micro-catheter with flexible wings, made of biocompatible PTFE

Cat.no.	Length x Size	French Size
302 042	4 cm x 0.7 mm	2
302 062	6 cm x 0.7 mm	2
302 063	6 cm x 1.0 mm	3
302 083	8 cm x 1.0 mm	3
302 113	11 cm x 1.0 mm	3
302 153	15 cm x 1.0 mm	3
302 203	20 cm x 1.0 mm	3
302 084	8 cm x 1.3 mm	4
302 114	11 cm x 1.3 mm	4
302 154	15 cm x 1.3 mm	4
302 204	20 cm x 1.3 mm	4
302 115	11 cm x 1.7 mm	5
302 155	15 cm x 1.7 mm	5
302 205	20 cm x 1.7 mm	5

**Box: 20 pcs.**

Other lengths and sizes on enquiry

## Arterial catheter - Seldinger-technique

### MICROSELD<sup>®</sup> - PEBAX

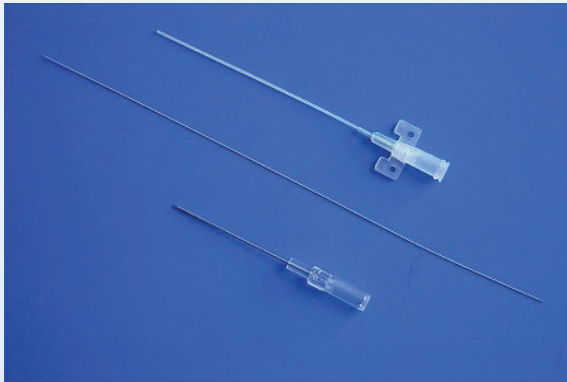
#### Radiopaque arterial catheter for measurement and diagnosis

MICROSELD<sup>®</sup> is suited for non-traumatic puncture of peripheral arteries for safe and complication-free positioning. It can be applied for any operation where a continuous blood pressure monitoring in anaesthesia and internal medicine is required and vessel damage or bleeding is to be eliminated, especially for arteria radialis, arteria brachialis and arteria femoralis.

MICROSELD<sup>®</sup> is also suited for monitoring of the heart function, circulation and lung function control as well as for sampling of blood gas.

#### Advantages of MICROSELD<sup>®</sup>-PEBAX:

- Big flexibility area
- Excellent moving fortune
- Good chemical resistance (produced without softeners)



#### Content

- Puncture needle with transparent handle
- Safety guide wire with flexible tip 3 cm
- Micro-catheter with flexible wings, made of biocompatible PEBAX

Cat.no.	Length x Size	French Size
305 063	6 cm x 1.0 mm	3
305 083	8 cm x 1.0 mm	3
305 113	11 cm x 1.0 mm	3
305 114	11 cm x 1.3 mm	4

**Box: 20 pcs.**

Other lengths and sizes on enquiry

## Arterial catheter with valve

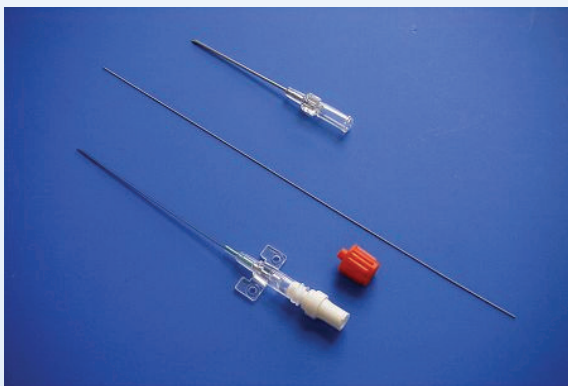
### MICROSELD<sup>®</sup>-VENT

Radiopaque catheter for measurement and diagnosis

As MICROSELD<sup>®</sup>, MICROSELD<sup>®</sup>-VENT is also suitable for non-traumatic puncture of peripheral arteries for safe and complication-free positioning.

Additionally, it is provided with a proximal valve which occurs blood escapes and contamination by disconnection.

MICROSELD<sup>®</sup>-VENT has an insertion device to protect the valve diaphragm.



#### Content

- Puncture needle with transparent handle
- Safety guide wire with flexible tip 3 cm
- Micro-catheter with flexible wings, made of biocompatible PTFE

Cat.no.	Length x Size	French Size
307 063	6 cm x 1.0 mm	3
307 083	8 cm x 1.0 mm	3
307 113	11 cm x 1.0 mm	3
307 114	11 cm x 1.3 mm	4
307 154	15 cm x 1.3 mm	4
307 204	20 cm x 1.3 mm	4
307 115	11 cm x 1.7 mm	5

**Box: 20 pcs.**

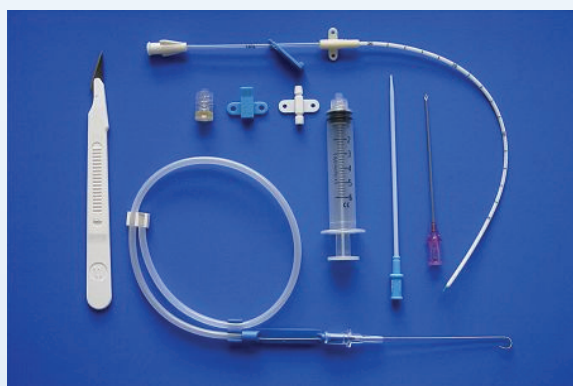
Other lengths and sizes on enquiry

## Central venous catheter

### Venoseld 1-lumen

All intra-Venoseld-catheters consists of high flexible thin-walled polyurethane which ensures very high flow rates. intra-Venoseld-catheters are made of micro-smooth and anti-thrombogen biocompatible polyurethane. At body temperature it gets very soft, swims in the vessel and reduces clearly the risk of phlebitis. The catheters are equipped with extremely soft-tip. All intra-Venoseld-catheters have a cm-marking. The X-ray-opaque material offers an extremely high X-ray-ability. The new catheter clip offers a safe and fix fixation.

The Venoseld-catheters are inserted by the Seldinger technique. This technique is distinguished by the fact that it is a complication free method and in addition it ensures a tiny puncture diameter and reduces therefore a vessel trauma.



#### Content

- Catheter with clamp
- Ultra sharp puncture needle
- Guide wire in advancer with flexible J-tip and one hand handling
- Dilator
- 5ml LL-syringe
- Additional fixation clip
- Further components on enquiry

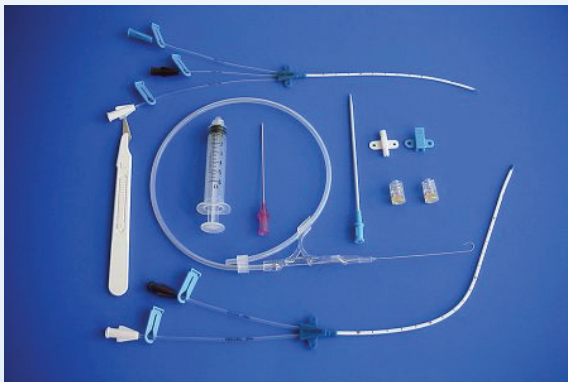
Cat.no.	Size	Length	Cat.no.	Size	Length
<b>Peel-Pack</b>			<b>Hardblister</b>		
331 092	24 G	9 cm	331 092H	24 G	9 cm
331 132	24 G	13 cm	331 132H	24 G	13 cm
331 130	20 G	13 cm	331 130H	20 G	13 cm
331 200	20 G	20 cm	331 200H	20 G	20 cm
331 168	18 G	16 cm	331 168H	18 G	16 cm
331 208	18 G	20 cm	331 208H	18 G	20 cm
331 308	18 G	30 cm	331 308H	18 G	30 cm
331 166	16 G	16 cm	331 166H	16 G	16 cm
331 206	16 G	20 cm	331 206H	16 G	20 cm
331 306	16 G	30 cm	331 306H	16 G	30 cm
331 204	14 G	20 cm	331 204H	14 G	20 cm
331 304	14 G	30 cm	331 304H	14 G	30 cm
<b>Box: 25 pcs.</b>			<b>Box: 10 pcs.</b>		

## Central venous multilumen catheter

### DUOCATH / TRILUCATH / QUADROCATH

Two-, three or four lumen infusion and measurement catheter without valve, made of polyurethane, with IN-plug (Seldinger technique). Due to one puncture providing 2 or 3 accesses, the radiopaque, biocompatible PUR-catheter minimizes the contamination risk and so reduces the costs.

Likewise, incompatible drugs or solutions can be infused separately in a quick and safe way. The soft tip minimizes the danger of vein perforation. The extremely smooth catheter surface prevents deposit of thrombi. The marker rings allow an exact positioning of the **DUOCATH** or the **TRILUCATH**. The individual lumina are colour-coded for safe identification.



#### Content

- Catheter with clamp
- Ultra sharp puncture needle
- Guide wire in advancer with flexible J-tip and one hand handling
- Dilator
- 5ml LL-syringe
- Additional fixation clip
- Further components on enquiry

Cat.no.	Size	Length	Cat.no.	Size	Length
<b>DUOCATH 2lumen</b>			<b>TRILUCATH 3lumen</b>		
332 014	4 F	15 cm	323 085	5.5 F	8 cm
332 024	4 F	20 cm	323 015	5.5 F	13 cm
332 034	4 F	30 cm	323 035	5.5 F	30 cm
332 015	5 F	15 cm	323 017	7 F	16 cm
332 025	5 F	20 cm	323 027	7 F	20 cm
332 035	5 F	30 cm	323 037	7 F	30 cm
332 017	7 F	15 cm			
332 027	7 F	20 cm	<b>QUADROCATH 4lumen</b>		
332 037	7 F	30 cm	334 028	8.5 F	20 cm
332 028	8 F	20 cm	334 038	8.5 F	30 cm
<b>Box: 10 pcs. (Hardblister)</b>					

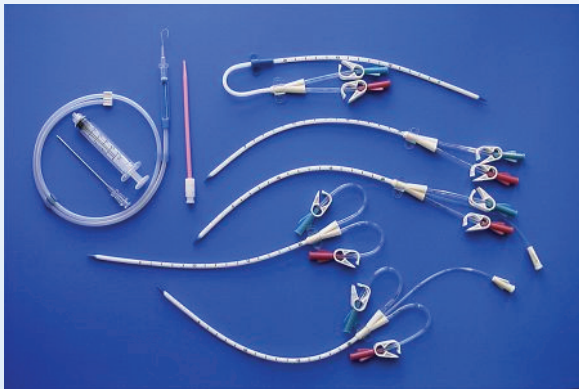
## Central venous multilumen catheter

### DUOCATH / TRILUCATH for hemodialysis

Hemodialysis catheters are catheters that provide temporary vascular access for hemodialysis until a permanent access is available or until another type of dialysis therapy is substituted. The multiple lumen catheters contain two large bore lumen that are connected to the dialysis machine to form a complete circuit for the removal and return of the patient's blood during treatment.

**intra** offers two- and three-lumen catheters for subclavian-jugular-femoral application. The radiopaque, thermosensitive and anti-kinking PUR-material with a blue soft-tip guarantees a high biocompatibility. It is extremely smooth and has a non-thrombogenic surface. The catheters are semirigid at room temperature and get softer when reaching body temperature thus minimizing the possibility of vessel wall injuries. It allows also the catheter to remain for extended periods in the body.

The **intra**-catheters are intended for percutaneous introduction using the Seldinger Technique. The catheter can be changed using the existing puncture.



#### Content

- Catheter with soft tip, clips and fixation aid
- Seldinger Cannula 18G - 7 cm
- Guide wire in advancer with flexible J-tip and one hand handling
- Dilator
- 5ml LL-syringe
- Further components on enquiry

Cat.no.		Size	Length	Cat.no.		Size	Length
<b>DUOCATH 2lumen</b>				<b>TRILUCATH 3lumen</b>			
332 112	Straight	12 F	16 cm	323 112	Straight	12 F	16 cm
332 212	Straight	12 F	20 cm	323 212	Straight	12 F	20 cm
332 112P	Pre-Curved	12 F	16 cm	323 112C	Curved extension line	12 F	16 cm
332 212P	Pre-Curved	12 F	20 cm	323 212C	Curved extension line	12 F	20 cm
332 112C	Curved extension line	12 F	16 cm				
332 212C	Curved extension line	12 F	20 cm				
<b>Box: 10 pcs. (Hardblister)</b>							



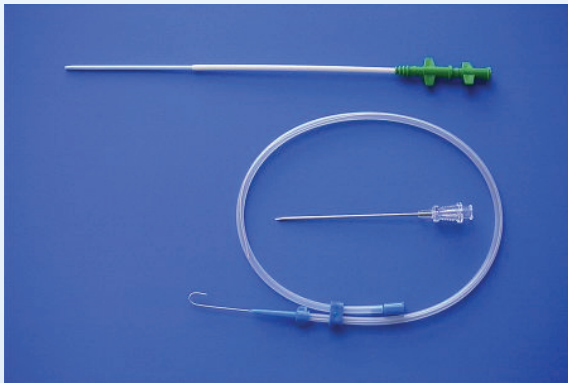
## Introducer set

### INTRADESILET<sup>®</sup> - STANDARD

consisting of:

dilator with precision shaped tip, sheath, both made of medical PP/PE, with homogeneous transition from dilator to sheath, puncture needle 18 G, guide wire with flexible, straight or J-tip.

The **INTRADESILET<sup>®</sup>-STANDARD** does not include an haemostatic valve, but is available with attachable haemostatic valve upon request.



#### Content

- Sheath 12.0 cm
- Dilator 18.0 cm
- Guide wire J-Tip 0.035" – 45 cm
- Puncture needle 18 G – 7 cm

Cat.no.	French Size
300 505	5
300 506	6
300 507	7
300 508	8
<b>Box: 10 pcs.</b>	
301 100	Haemostatic valve with luer-lock
<b>Box: 50 pcs.</b>	

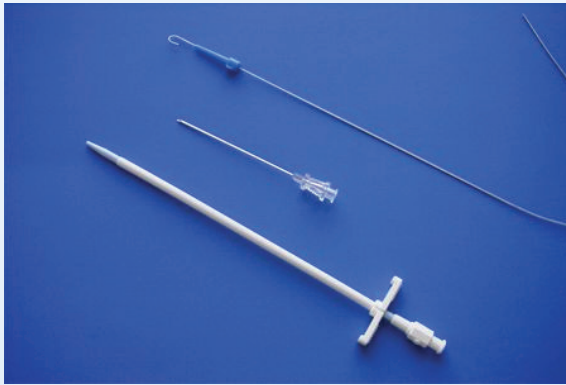
## Introducer set

### INTRADESILET<sup>®</sup> - PEEL

**INTRADESILET<sup>®</sup>-PEEL** is a radiopaque, preformable peel-away introducer set for the introduction of

- permanent pacing leads
- balloon catheters
- drainage catheters
- other catheters (for ex. over the vena subclavia)

INTRADESILET<sup>®</sup>-PEEL is especially designed for the displacement of the introducer-set without changing the localization of the introduced catheter. The risk of kinking or traumatic effects at the insertion point is minimized by its optimized design.



#### Content

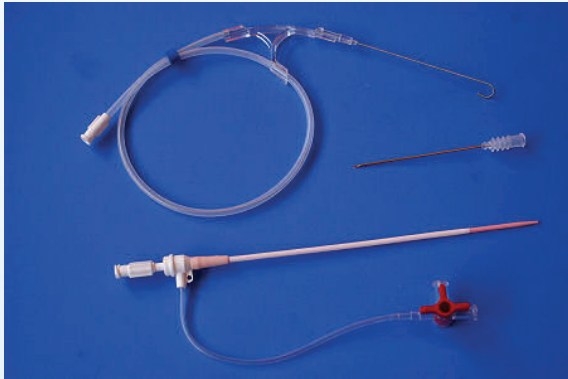
- Peel-away sheath 14 cm
- Dilator 18 cm
- Guide wire J-Tip 0.035" – 45 cm
- Puncture Needle 18 G – 7 cm

Cat.no.	French Size
300 605	5
300 606	6
300 607	7
300 608	8
300 609	9
300 610	10
300 611	11
300 612	12
300 613	13
300 614	14
<b>Box: 10 pcs.</b>	

## Introducer set

### INTRADESILET<sup>®</sup> - INTRADUCER

with integrated haemostatic valve



#### Content

- Sheath (13.5 cm) with homogeneous transition
- Dilator (19.5 cm) with precision shaped tip
- Integrated haemostatic valve and sideport
- Guide wire with J-tip (0.035" – 45 cm)
- Puncture needle 18 G - 7 cm

Cat.no.	French Size
300 805	5
300 806	6
300 807	7
300 808	8

**Box: 10 pcs.**

## Flow-directed balloon-tipped catheter

### INTRATHERMODIN

Multilumen catheter for measuring and monitoring cardiac output and for continuous infusion, blood sampling and blood gas analysis.

The catheter is made of radiopaque polyurethane. The marker rings have an interval of 10 cm from distal. The enclosed syringe for inflation of the balloon corresponds to the balloon capacity. The symmetrical balloon is made of Latex and individually checked on pressure resistance and leakages.



Cat.no.	Length	French Size
<b>INTRATHERMODIN 2lumen</b>		
250 115	110 cm	5
250 116	110 cm	6
250 117	110 cm	7
<b>INTRATHERMODIN 3lumen</b>		
252 116	110 cm	6
252 117	110 cm	7
<b>INTRATHERMODIN 4lumen</b>		
440 115	110 cm	5
440 116	110 cm	6
440 117	110 cm	7
<b>Box: 5 pcs.</b>		

In dependence of specification a minimum order quantity of 30 pcs. is requested.

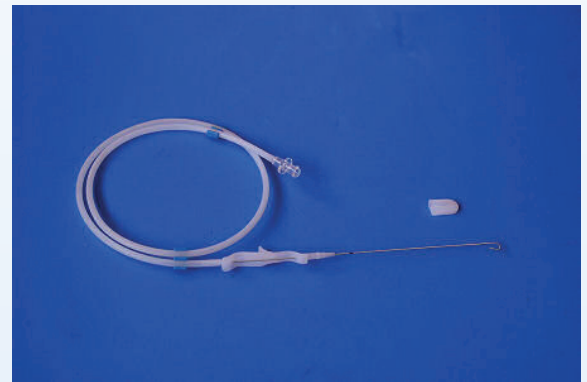
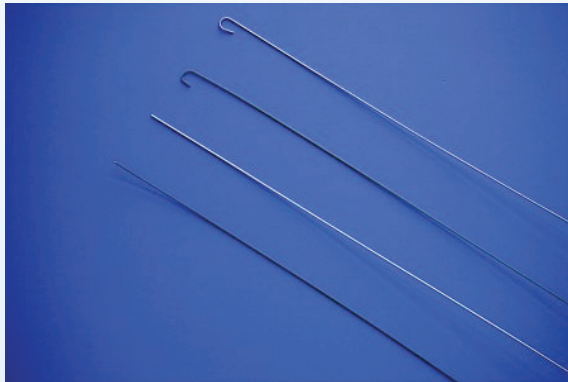
### Accessories (on enquiry)

Cat.no.	Description
300 002	Flow rate-inject-sensor device (temperature sensor) for exact measurement of cardiac output for all catheter sizes
300 001	Repositioning sheath/slide-in cover for protection by repositioning of the cardiac catheter for long term monitoring, for all catheters up to 8 F. Total length 80 cm, including plug-in hub for safe connection to the sheath
301 100	Haemostatic valve with luer-lock
<b>Box: 50 pcs.</b>	

## Guide wires

All guide wires are made of stainless steel with exactly rounded tip. They are available with fixed or movable core. The tip is flexible at one or both ends, with straight or J-tip.

The guide wires are available Teflon-coated or uncoated.



Cat.no.	Size	Length
<b>Straight</b>		
470 075	0.035" / 0.89 mm	70 cm
470 155	0.035" / 0.89 mm	150 cm
<b>J-Tip</b>		
471 075	0.035" / 0.89 mm	70 cm
471 155	0.035" / 0.89 mm	150 cm
471 156	0.038" / 0.96 mm	150 cm
<b>J-Tip – Teflon-coated</b>		
472 155	0.035" / 0.89 mm	150 cm
472 156	0.038" / 0.96 mm	150 cm
<b>Straight – Teflon-coated</b>		
473 155	0.035" / 0.89 mm	150 cm
473 156	0.038" / 0.96 mm	150 cm
<b>Box: 50 pcs.</b>		

Other sizes (see table below) and lengths on enquiry.

Conversion table (millimeters to inches) for the diameters of the guidewires:

mm	0.39	0.46	0.53	0.64	0.81	0.89	0.96	1.14
inch	0.0155	0.018	0.021	0.025	0.032	0.035	0.038	0.045
Code for the last cat.no.	1	2	3	8	4	5	6	7

## Monitoring

### Monitoring-set

for all invasive blood pressure measurements. Offers a cost saving solution compared to the use of single components.

Safe and solid connections. Avoids disconnections and contamination of the connections.

Matching system components guarantee accurate transmission of pressure waves. Therefore correct, safe, frequency-accurate and low-attenuation pressure read outs.



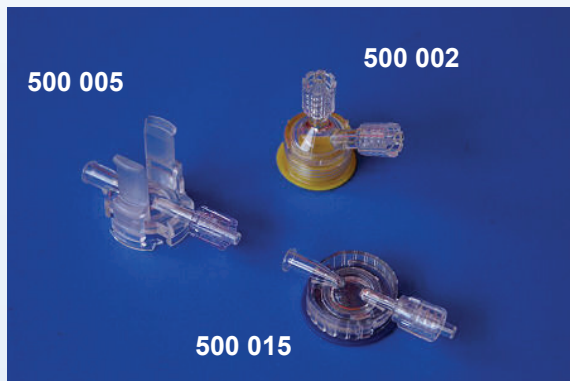
Cat.no.	Description
482 124	Monitoring-Set intra arterial administration set for pressure infusion with flush device transducer side: dome, three-way-stopcock red, patient's side: three-way-stopcock red, monitoring-line 150 cm, three-way-stopcock red, arterial monitoring-line 20 cm
482 125	Monitoring-Set intra venous ditto 482 124. but with blue stopcocks

**Box: 50 pcs.**

## Monitoring

### Accessories for invasive monitoring PRESSURE DOME

Made of clear polycarbonate for different types of pressure transducers. Good frequency properties due to thin, resistant and impermeable membrane of polyurethane and solid and safe connections.



Cat.no.	Description
500 002	Dome Statham Gould P 23 i.D. XL
500 005	Dome SensoNor AE 844-28
500 015	Dome SensoNor AE 840-22

**Box: 100 pcs.**

### FLUSH DEVICE

The continuous **Moniflo**-flush device is especially suitable for long term monitoring due to a free transfer monitoring. Avoids accidental blockages of pressure lines based on thrombogenesis. The system permits a simple, quick one hand mechanism.

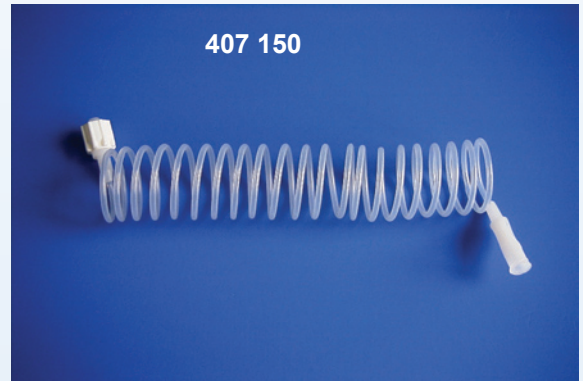
Cat.no.	Description
460 203	Moniflo for adults set pressure: 40 KPa (300 mm/Hg) flow rates controlled: 3 cc/h rapid flush: 75 cc/min

**Box: 50 pcs.**

## Connecting and measuring catheter

### CONNECATH

The connection line is made of PE (polyethylene) or medical PVC with precision lumen.  
The connection line of medical PE for high frequency accuracy with an inside lumen of 1.0 or 1.8 mm.  
No hydrothermal changes. No leakages due to line distortions.



### CONNECATH - intraspinal

The connection- and measurement catheter intraspinal is suitable for infusion and measurement. The length of the line adapts to the movements of the patient. A hygienic handling is ensured. If used properly a disconnection of the **intraspinal** is prevented.

Cat.no.	Size / Length	Other specifications	Cat.no.	Size / Length	Other specifications
<b>PE</b>			<b>PVC</b>		
401 020 (m/f)	2.0 x 1.0 mm / 20 cm	14 bar	461 060 (m/f)	2.7 x 1.5 mm / 60 cm	18 bar
401 090 (m/f)	2.0 x 1.0 mm / 90 cm	14 bar	<b>Connecath with stopcock</b>		
401 120 (m/f)	2.0 x 1.0 mm / 120 cm	14 bar	451 015	2.7 x 1.5 mm / 15 cm	Red, 2.5 bar
401 150 (m/f)	2.0 x 1.0 mm / 150 cm	14 bar	452 015	2.7 x 1.5 mm / 15 cm	Blue, 2.5 bar
402 020 (m/f)	3.0 x 1.8 mm / 20 cm	14 bar	452 070	2.7 x 1.5 mm / 70 cm	Blue, 2.5 bar
402 120 (m/f)	3.0 x 1.8 mm / 120 cm	14 bar	454 015	2.7 x 1.5 mm / 15 cm	White, 2.5 bar
433 ... (m/m)	2.0 x 1.0 mm / 150 cm	14 bar			
407 150 (m/f)	1.0 x 2.0 mm / 150 cm	intraspinal			

**Box: 50 pcs.**

The last three items of the catalogue number refer to the catheter length, e.g. Connecath 20 cm = cat. no 401 020.

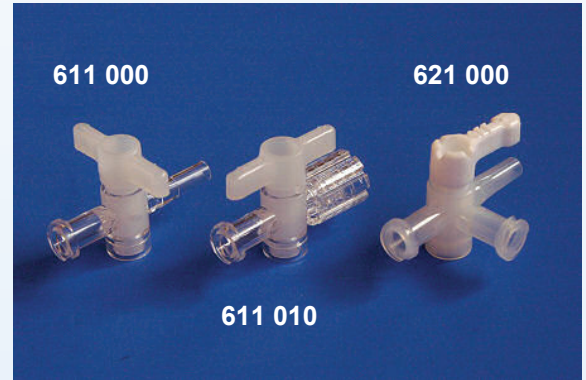
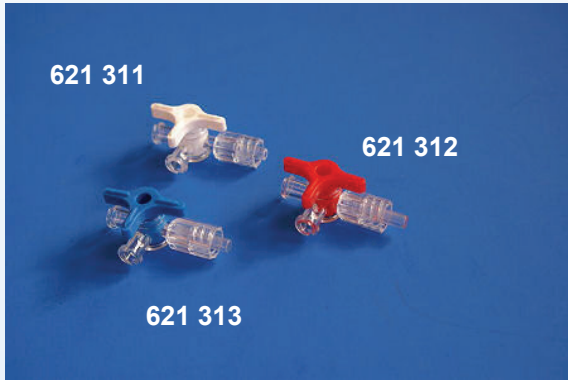
Other sizes and lengths on enquiry



## Stopcocks

The **intra**-stopcock is suitable for normal infusion use and accurate frequency measurement.

Transparent and pressure-resistant till 2.0 bar. The luer-lock-connector provides a fast and sure connection.

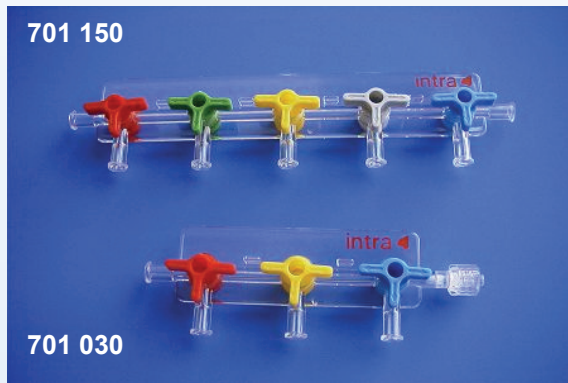


Cat.no.	Description
611 010	2-way-stopcock, LL
611 000	2-way-stopcock, Luer
<b>Box: 50 pcs.</b>	
621 000	3-way-stopcock, pressure proofed, one-handle-design
621 001	3-way-stopcock with tube adaptor
621 311	3-way-stopcock, three-handle-design, white 360°
621 312	3-way-stopcock, three-handle-design, red 360°
621 313	3-way-stopcock, three-handle-design, blue 360°
621 411	3-way-stopcock, Lipid resistant, three-handle-design, white 360°
621 412	3-way-stopcock, Lipid resistant, three-handle-design, red 360°
621 413	3-way-stopcock, Lipid resistant, three-handle-design, blue 360°
<b>Box: 50 pcs.</b>	

## Manifolds

### Manifold Intramultilock

The manifold is made of polycarbonate. Each manifold is a one-piece moulding production and has a holding plate for easy and secure attachment to the IV pole with a special clamp. They are transparent and pressure-resistant till 2 bar. The stopcock handles are blue or with different colours to differentiate the monitoring lines.



<b>Cat.no.</b>	<b>Description</b>
701 030	3-way m/f luer-lock with one lateral male port, all other ports female
701 050	5-way m/f luer-lock with one lateral male port, all other ports female
701 130	3-way f/f luer-lock all ports female
701 150	5-way f/f luer-lock all ports female

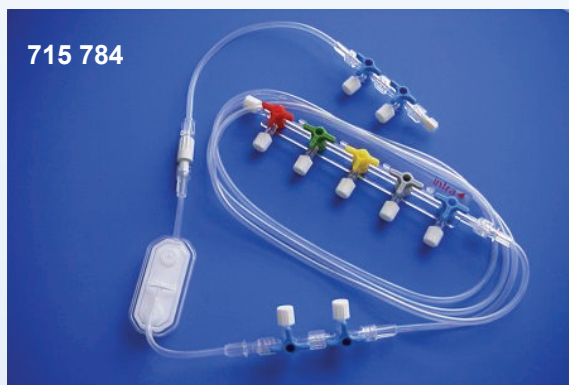
**Box: 50 pcs.**

## Manifold systems

### Manifold systems Intramultilock

All manifold systems can be composed to the customer's specific requirements, also as systems including filters, three-way-stopcocks, etc. They are transparent and pressure-resistant till 2 bar

Extension tubes are available male/female or male/male combinations in the lengths 50. 100. 150 and 200 cm. Special lengths upon request.



Cat.no.	Description
701 034	3-way, m/f, extension tube 200 cm
701 054	5-way, m/f, extension tube 200 cm
712 034	3-way, m/f, extension tube 200 cm, 3-way-stopcock
712 054	5-way, m/f, extension tube 200 cm, 3-way-stopcock
715 784	5-way, m/f extension tube 180 cm, 2 three-way-stopcocks, filter, retain-valve, extension tube 20 cm, 2 three-way-stopcocks

**Box: 50 pcs.**

Other sets can be composed according to the customer's specific requirements.

### intra-manifold-distributor-system

For the purpose of saving heterogenous blood the blood transfusion has risen strongly during defined operations. The administration of heterogenous blood could be reduced considerably.

For blood-collections during operations or postoperative (without putting too much strain on the patient) the **intra-manifold-distributor-systems** have proved themselves very well as a junction to collecting basins.

The **intra-manifold-distributor-system** is variously usable. During the operation phase: The Redon-drainages (which are inserted in the wound area) get connected with the extensions of the **intra-manifold-distributor-system** and, to be more precise, on the respectively corresponding CH-strength of the drainage. Mostly a suction drainage (with two lumen) is put on to the **intra-manifold-distributor-system** in connection with an infusion set.

Over the infusion set saline and heparin are supplied to the running exudation of the wound into an secretory-collecting basin.

The washing process can be started as soon as at least 200 ml liquid (mixed with heparin and exudation of the wound) are in the collecting basin.

Cat.no.	Description
012 006	intra manifold-distributor-system

**Box: 50 pcs.**

## Manifold systems

### intra-tumescence-set

**Distributor system for subcutaneous application of thinned down local anesthetic solutions.**

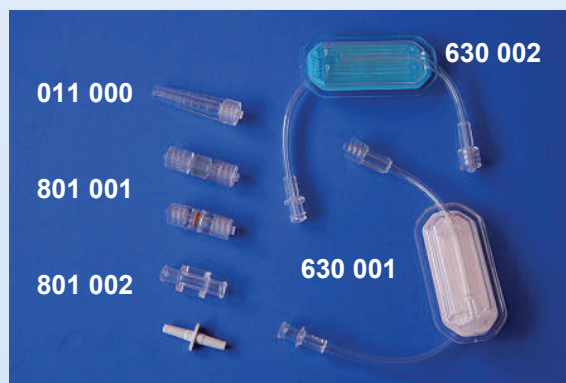
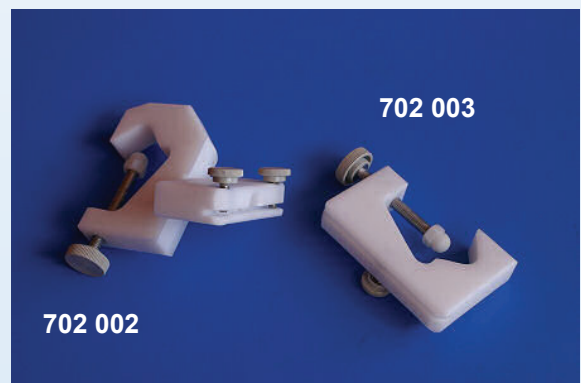
The Tumescence-Local-Anesthesia (TLA) is a regional anesthesia of the skin and of subcutaneous fat tissue by a direct infiltration of big volumes of a thinned local anesthetic. The thought, to combine the introduction of fluid with anesthetic means, that during this intervention you can do without risk full general anesthesia, which is normally needed with siphoning greases.

The intra-Tumescence-Set was specially conceived as distributor system to inject large amounts of thinned solution (up to 6 liters), i.e. with Liposuctions.

By parallel use of several cannulas, connected to intra-Tumescence-Set, the duration of infiltration gets abbreviated. The liquid at the single cannulas is promoted with a relatively low speed. This is to avoid a too quick print construction, which gets frequent of patients as felt unpleasantly.

Cat.no.	Description
713 999	3-gang Set, m/f from polycarbonate with colored cock and connected infiltration lines (75 cm)
713 998	dto. 5gang Set
713 997	dto. 5gang Set but infiltration lines 140 cm

**Box: 50 pcs.**



### Accessories

intra special catheters supplies the complete accessory range adapted to the manifold systems.

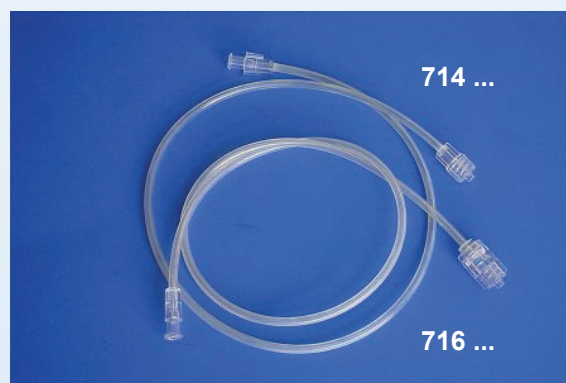
Cat.no.	Description	Cat.no.	Description
702 002	Universal holding device rotatable	011 000	Tubing adaptor, variable connection adaptor
702 003	Universal holding device fixed	801 000	Alternate adaptor, male/male luer (unsterile)
630 001	Filter, 96 h Gelmann-filter with LL connectors	801 001	Alternate adaptor, male/male rotating luer-lock
630 002	Lipid Filter with LL connectors	801 002	f/f alternate adaptor

**Box: on enquiry**

## High pressure lines

Disposable stopcocks, manifolds and pressure catheter for angiography and other pressure measurements in the high pressure range up to 1.200 psi (85 kg/cm<sup>2</sup>) in PVC or PUR.

Novel luer-lock connection, absolutely leak proofed, can be screwed on easily with slight exertion of pressure, in conjunction with our standard high-pressure stopcocks and manifolds.



Cat.no.	Description
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**High pressure stopcocks**

622 000	3-way-stopcock, 1000 PSI
622 001	3-way-stopcock, 1000 PSI, rotating

**Box: 50 pcs.**

**High pressure manifolds**

704 020	2-way, LL, female / male rotating, 500 PSI
704 030	3-way, LL, female / male rotating, 500 PSI

**Box: 50 pcs.**

**High pressure connecting lines**

714 075	75 cm length, PVC, rigid adapter, LL, m/f, 1200 PSI
714 120	120 cm length, PVC, rigid adapter, LL, m/f, 1200 PSI
716 075	75 cm length, PVC, rotating male adapter, LL, m/f, 1200 PSI
716 120	120 cm length, PVC, rotating male adapter, LL, m/f, 1200 PSI
717 075	75 cm length, flexible PUR (tissue), rigid adapter, LL, m/f, 1200 PSI
717 120	120 cm length, flexible PUR (tissue), rigid adapter, LL, m/f, 1200 PSI
718 075	75 cm length, flexible PUR (tissue), male rotating adapter, LL, m/f, 1200 PSI
718 120	120 cm length, flexible PUR (tissue), male rotating adapter, LL, m/f, 1200 PSI

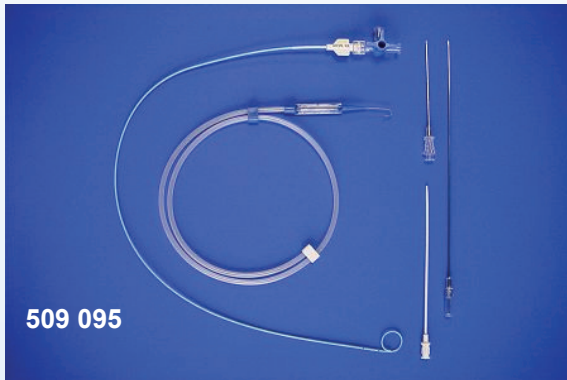
**Box: 20 pcs.**

Minimum order quantities for PUR-lines requested.

## Pericardial set

### PERICARDIAL ASPIRATION SET

Aspiration set to puncture the pericardium by a DSA – catheter



<b>Cat.no.</b>	<b>Description</b>
509 045	Pigtail catheter 5 F, 45 cm with three-way-stopcock 18 G Seldinger cannula 5,5 cm Guide wire J-tip, 90 cm Suction bag 2.0 ltr. with LL-adaptor and 90 cm suction tube
509 095	Pigtail catheter 5 F, 90 cm 18 G Seldinger cannula 7 cm + 19 cm Dilator 5F - 10 cm Guide wire J-tip 150 cm x 0.035",
509 078	PA-catheter 8 F – 70 cm 18 G Seldinger cannula 7 cm + 19 cm Dilator 8F - 10 cm Guide wire J-tip 150 cm x 0.035" with insertion aid
<b>Box: 5 pcs.</b>	
010 002	Suction bag 2.0 ltr. with 90 cm tube
<b>Box: 50 pcs.</b>	



## Thoracic catheter

### PNEUMOCATH®

Thin and radiopaque drainage in slide-in cover with marker rings, three-way-stopcock with suction connection tube for drainage of air and/or fluid in the pleural cavity, as well as in all emergency situations where the application of a surgical suction drainage might come too late or is quite a risk.

Due to its small size and easy handling, the **Pneumocath®** thoracic drain is particularly valuable in paediatrics. A high degree of safety is ensured by compatibility of the material and an Heimlich-valve (**PNEUMOVENT®**) with fixed luer-lock mechanism ensures more security. The catheter permits sterile, fast and safe handling without any additional aids.



Cat.no.		Needle	Catheter Length	Catheter Size
503 001	For adults	110/85 mm	500 mm	8 F (2.7 mm)
503 002	For children	85/65 mm	400 mm	8 F (2.7 mm)
503 003	For prenatore and newborns	80/55 mm	300 mm	6 F (2.0 mm)

**Box: 20 pcs.**

503 401	PNEUMOCATH® Kit consisting of <ul style="list-style-type: none"> <li>• Catheter with puncture needle</li> <li>• Tubing adapter with stopcock</li> <li>• 50 ml syringe</li> <li>• Suction bag 2.0 ltr. with 90 cm tube</li> </ul>	110/85 mm	500 mm	8 F (2.7 mm)
503 501	PNEUMOCATH® Kit consisting of <ul style="list-style-type: none"> <li>• Catheter with puncture needle</li> <li>• Tubing adapter with stopcock</li> <li>• 50 ml syringe</li> <li>• Suction bag 2.0 ltr. with 90 cm tube</li> <li>• Heimlich valve (Pneumovent®)</li> </ul>	110/85 mm	500 mm	8 F (2.7 mm)

**Box: 10 pcs.**

Other kits conforming customer's requests on enquiry.

## Thoracic catheter

### NEO-PNEUMOCATH®

Catheter with enlarged lumen. The **NEO-PNEUMOCATH®** offers a new and improved technique for drainage in the thoracic cavity. It is also a valuable device for simplifying the Bulau suction method and other trocar methods (pathological accumulation of air and/or fluid, as well as in all emergency situations where the application of a surgical suction drainage is often inappropriate).

A high degree of safety is ensured by compatibility of the material and an Heimlich-valve (**PNEUMOVENT®**) with fixed luer-lock mechanism ensures more security. The catheter permits sterile, fast and safe handling without any additional aids.



Cat.no.		Needle	Catheter Length	Catheter Size
503 011	For adults	110/85 mm	500 mm	10 F (3.2 mm)
503 012	For children	85/65 mm	400 mm	10 F (3.2 mm)
503 014	Emergency model	110/85 mm	400 mm	10 F (3.2 mm)
<b>Box: 20 pcs.</b>				
503 111	NEO-PNEUMOCATH® Kit consisting of			
	• Catheter with puncture needle	110/85 mm	500 mm	10 F (3.2 mm)
	• Tubing adapter with stopcock			
	• Suction drain 180 cm			
	• Heimlich valve (Pneumovent®)			
	• Holding plate			
<b>Box: 6 pcs.</b>				

Other kits conforming customer's requests on enquiry.



## Thoracic catheter

### PNEUMOCATH<sup>®</sup> / NEO-PNEUMOCATH<sup>®</sup> - fix

The fix-adapter with integrated 3-way-stopcock and suction connection adapter ensures a fast and sure connection of the catheter and so it permits sterile, fast and safe handling without any additional aids.



Cat.no.		Needle	Catheter Length	Catheter Size
503 201	PNEUMOCATH <sup>®</sup> for adults	110/85 mm	500 mm	8 F (2.7 mm)
503 202	PNEUMOCATH <sup>®</sup> for children	85/65 mm	400 mm	8 F (2.7 mm)
503 203	PNEUMOCATH <sup>®</sup> for prenatue and newborns	80/55 mm	300 mm	6 F (2.0 mm)
503 211	NEO-PNEUMOCATH <sup>®</sup> for adults	110/85 mm	500 mm	10 F (3.2 mm)

**Box: 20 pcs.**

Kits conforming customer's requests on enquiry.

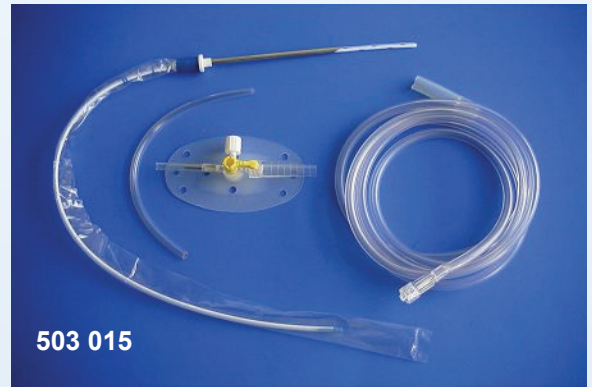
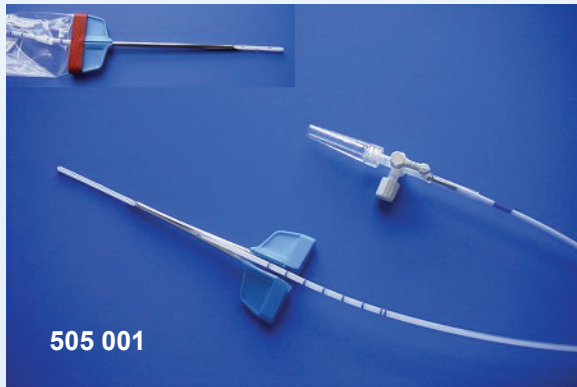
## Thoracic catheter

### PNEUMOCATH® - Intrasplit

New thoracic drainage system with **intrasplit-cannula** for drainage of pathological accumulation of air and/or fluid in the pleural cavity. Fast, simple and safe handling.

The thin drain is to insert through a new **intrasplit-cannula**. As this is a closed system including a three-way-stopcock already connected, a subsequent connection to an adaptor is not required.

After a successful puncture and placement of the thoracic drain into the pleural cavity, the puncture needle is withdrawn, the sterile slide-in cover is removed by splitting it open and the intrasplit cannula is also removed by splitting. The variable adaptor can be connected with the suction lines.



### ONKO-PNEUMOCATH®

A new, improved technique for intercostal drainage to facilitate the aspiration method by Bülow. The catheter provides sterile and reliable manipulation without further auxiliary instruments.

**Indications:**

Pathological accumulation of air and/or liquid in the pleural cavity, especially for malign intrapleural effusion or intended pleurodesis.

**Advantages:**

Stabilisation of the catheter extrathoracically and in the area of the thoracic wall by wrapping catheters, self-adhesive fixation panel, suitable connection tube, double safeguard at the three-way-stopcock by two-point-fixation.

Cat.no.		Needle	Catheter Length	Catheter Size
505 001	Pneumocath® with Intrasplit-cannula	110/85 mm	500 mm	8 F (2.7 mm)
<b>Box: 20 pcs.</b>				
503 015	ONKO-PNEUMOCATH® Kit consisting of <ul style="list-style-type: none"> <li>• Catheter with puncture needle</li> <li>• Wrapping catheter</li> <li>• Fixation line including variable adaptor</li> <li>• Suction tube 180 cm</li> </ul>	110/85 mm	500 mm	10 F (3.2 mm)
<b>Box: 10 pcs.</b>				

## Thoracic catheter

### THORACENTESIS

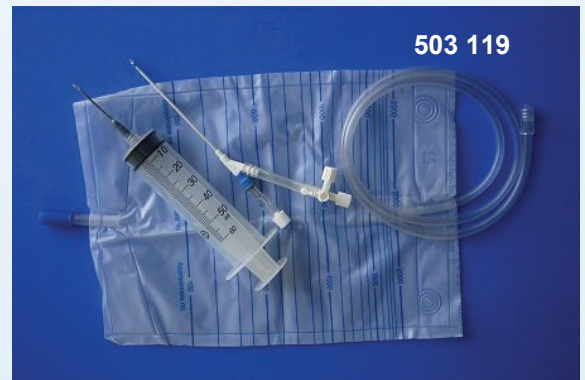
Aspirating set for pleuracentesis suitable for:

- pneumothorax
- pleurodesis
- aspiration of any effusions

Combined models with self-locking-seal, particularly well suited for pleurodesis applications. Special possibility for infusion of drugs with subsequent optional suction.

Reliable manipulation by means of a three-way-stopcock and a flexible silicon tubing.

All models with lateral eye on the distal end of the catheter.



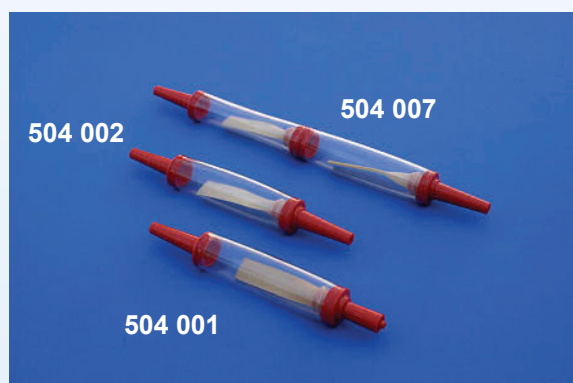
Cat.no.	Description
503 021	Thoracentesis with straight puncture needle (14 G – 11 cm)
503 020	Thoracentesis for paediatrics with sideport (17 G – 3.5 cm)
503 019	Thoracentesis for adults with sideport (14 G – 8.5 cm)
503 119	Thoracentesis-Ascites-Puncture-Set consisting of <ul style="list-style-type: none"> <li>• Thoracentesis with sideport (14 G – 8.5 cm)</li> <li>• Syringe 50 ml LL</li> <li>• Suction bag 2.0 ltr. LL with 90 cm tube</li> </ul>
503 022	Pleura-Puncture-Set consisting of <ul style="list-style-type: none"> <li>• Thoracentesis with straight puncture needle (14 G - 11 cm)</li> <li>• Suction bag 2.0 ltr. LL with 90 cm tube</li> <li>• Three-way-stopcock blue</li> <li>• 60 ml syringe</li> <li>• 75 cm infusion tube</li> </ul>
503 061	Thoracentesis with Veress-Needle (120 x 1,8 mm) and <ul style="list-style-type: none"> <li>• Suction bag 2.0 ltr. LL and 90 cm tube</li> <li>• Three-way-stopcock blue</li> <li>• 60 ml syringe</li> <li>• 75 cm infusion tube</li> </ul>

**Box: 20 pcs.**

## Thoracic catheter

### Accessories

**intra special catheters** offers suitable accessories for all thoracic catheters, such as Heimlich-type drainage valves **PNEUMOVENT**<sup>®</sup> (with luer-lock connections or also tube connections), various variable adaptors (with or without stopcock), a special fixation plate to adapt three-way stopcocks, as well as suction tubes with silicone adaptors or Heidelberger extension-lines.



Cat.no.	Description
504 001	Pneumovent <sup>®</sup> with luer-lock connection
504 002	Pneumovent <sup>®</sup> with tube connection
504 006	Pneumovent <sup>®</sup> double chamber valve, Luer-Lock adaptor
504 007	Pneumovent <sup>®</sup> double chamber valve, both sides tube adaptor
011 000	variable adaptor without stopcock
011 001	variable adaptor with stopcock for NEO-PNEUMOCATH <sup>®</sup> (10 F)
011 002	variable adaptor with stopcock for PNEUMOCATH <sup>®</sup> (8 F)
503 010	Connection tube to connect the thin drains to bigger systems
503 016	Skin fixation plate
503 050	Suction tube 50 cm, male/silicone adaptor
503 180	Suction tube 180 cm, male/silicone adaptor
010 002	Suction bag 2.0 ltr. with 90 cm tube

**Box: on enquiry**

## Double-Telescope-Catheter

### intra-Bronch

for:

- Diagnosis of Nosocomial Pneumonia
- Bronchoscopic or Blind Dry Aspiration Technique

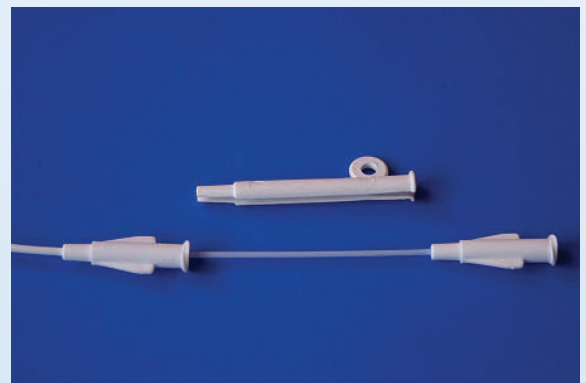
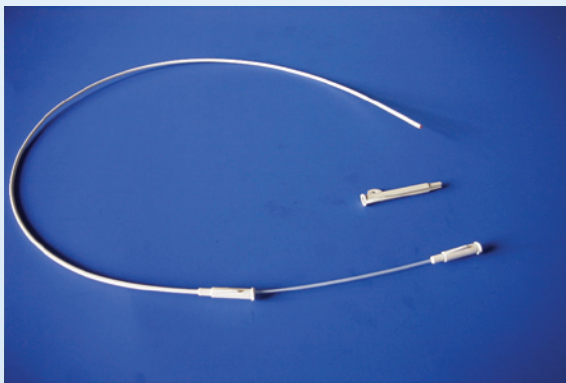
The system is particularly suitable for the application during the artificial respiration phase of the patient. In most cases a pneumopathy develops in the lower area of the lungs.

It is a fast, protected method to identify the problem directly and use the suitable antibiotics therefore specifically. One shouldn't wait however for any case till the patient has fevers since otherwise the risk of grave complications increases (it is known that the mortality rate is high in these cases).

With the intra-Bronch, so the risk of a bacteria resistance is reduced on a minimum since one can start preventative measures always corresponding. By a direct microscopic examination a wide spectrum of antibiotics can be avoided.

Advantages of the method:

- Biopsy with one catheter system only. In most cases the system can be used directly. Use by an endoscope is superfluous. It is however also possible to introduce the catheter system through a Bronchoscope in case of difficult conditions.
- No intermixing of epithelial cells or cells from the upper respiratory tract possible.
- The patient doesn't have to get a detubation.
- A bronchoscopy is superfluous in most cases.
- Avoidance of bacterial resistance.
- Lower up of the mortality to 30%.
- Short artificial respiration time.
- Patient kind.
- Cost-saving (time-saving - by qualified staff).



Cat.no.	Outer catheter Ø / Length	Inner catheter Ø / Length
506 001	2.7 x 2.0 mm - 60 cm	1.7 x 1.2 mm - 65 cm
506 002	2.0 x 1.5 mm - 35 cm	1.4 x 1.0 mm - 40 cm
506 004	2.0 x 1.5 mm - 75 cm	1.4 x 1.0 mm - 80 cm

**Box: 20 pcs.**



## Temporary Leads / Electrophysiology

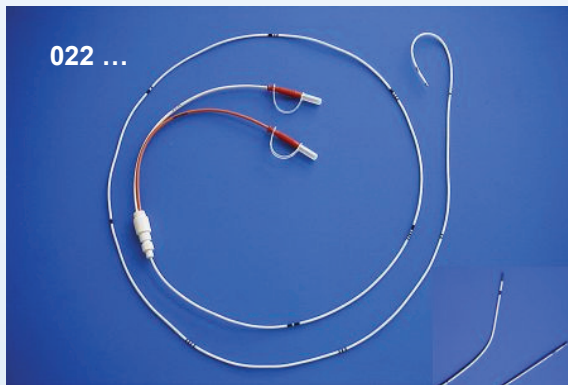
### Intralektrode Bipolar

Bipolar Semi-Floating pacing lead in 4, 5 and 6 French for temporary stimulation of the heart especially in emergency cases of bradycardial arrhythmias or for recording intracardiac ECGs.

Intralektrode can be positioned quickly, easy and safely and the advantages are good pushability, excellent torque control and positional - stability. Intralektrode can be easily user preformed or ordered in traditional shapes. Spacing and sizes of the electrodes can be changed individually upon request.

#### Advantages:

Easy and safe positioning, constant torque control, radiopaque, length bending, high positional-stability, user preformability.



#### Technical specifications

##### Intralektrode bipolar

Diameter: 4F/1.35mm, 5F/1.67mm, 6F/2.0mm  
 Surface  
 Ring/Tip: 12/15mm<sup>2</sup>, 15/19mm<sup>2</sup>, 19/25mm<sup>2</sup>  
 Spacing of electrodes: 7mm (5mm on request)  
 Material: Stainless Steel  
 Eff. length: 110cm  
 Isolation: Polyamide, radiopaque  
 Resistance: < 50 Ohm  
 Connector: 2mm pin, gold-plated

##### Package contents

- 1 bipolar temporary pacing lead
- 1 Introducer Set (over the needle peel-away sheath)

##### Intralektrode with balloon

Diameter: 5 F  
 Electrode space: 10 mm  
 Length (eff.): 114 cm  
 Material (electrodes): stainless steel  
 Material (catheter): Polyurethane, antithrombotic  
 Connector: 2 mm pins, gold plated  
 Balloon: Ø 8 mm - Volume = 0.8 ml

##### Package contents

- 1 bipolar, temp. lead with balloon
- 1 syringe for balloon 0.8 ml

Cat.no.	French Size	Tip
<b>Intralektrode bipolar</b>		
022 224	4	Straight
022 234	4	J-Type
022 244	4	C-Type
022 225	5	Straight
022 235	5	J-Type
022 245	5	C-Type
022 226	6	Straight
022 236	6	J-Type
022 246	6	C-Type
<b>Box: 5 pcs.</b>		
<b>Intralektrode with balloon</b>		
052 225	5	Straight
<b>Box: 5 pcs.</b>		

## Implantable port

Port system - implantable for chemotherapy and other procedures for following indications:

- Oncology (patients with long term ambulatory chemotherapy and interval perfusions or continuous infusion)
- Parenteral long term nutrition / home parenteral nutrition
- Substitution of blood or blood particles
- Blood sampling for diagnostic
- Patients with a difficult vessel anatomy
- Set of heparine/saline solution (NaCl) block



### Titanium ports

Titanium is excessively lighter than stainless steel and does not contain nickel. Furthermore, it is not magnetic which might also be very important in special situations. The port is easy to implantate (subcutaneously).

Cat.no.	Cat.no. Kit	Cat.no. Kit/Tunnel.		Weight [g]	Port measures [Ø x h]	Septum Ø [mm]	Catheter length [mm]	Catheter Ø [mm]
370 020	037 020	036 020	Venous	18.0	29.5 x 12.2	14	700	1.0 x 2.0
370 023	037 023	036 023	Venous	18.0	29.5 x 12.2	14	700	1.0 x 2.3
370 026	037 026	036 026	Venous	18.0	29.5 x 12.2	14	700	1.0 x 2.6
370 632	037 632	036 632	Venous	18.0	29.5 x 12.2	14	700	1.6 x 3.2
370 120	037 120	036 120	Venous, paediatric	14.0	24,75 x 9,	10.2	700	1.0 x 2.0
370 126	037 126	036 126	Venous, paediatric	14.0	24,75 x 9,	10.2	700	1.0 x 2.6
370 132	037 132	036 132	Venous, paediatric	14.0	24,75 x 9,	10.2	700	1.6 x 3.2
370 823	037 823	036 823	Arterial	18.0	29.5 x 12.2	14	600	0.8 x 2.3

Titanium ports are also available as kit (REF: 037 ...) and as kit with tunnelizer (REF: 036 ...).

### Ports from Polyoxymethylene (POM)

The POM ports dispose of a flexible connection (therefore kinking protection). The port is low-weight and biocompatible. The preconnected, radiopaque silicone catheter can be disconnected and shorted if necessary. The venous catheter is graduated. The silicone membrane closes automatically. The port is pressure-proofed till 7 bar. Due to its anatomical form, the port can be implanted easily and also be recognized without any problems by radiological handlings.

Cat.no.	Cat.no. Kit	Cat.no. Kit/Tunnel.		Weight [g]	Port measures [Ø x h]	Septum Ø [mm]	Catheter length [mm]	Catheter Ø [mm]
380 022	038 022	039 022	Venous standard	7.3	32.5 x 29.8 x 14.7	12	700	1.0 x 2.0
380 123	038 123	039 123	Venous flat	4.1	26.4 x 26.0 x 11.8	10	700	1.0 x 2.0
380 823	038 823	039 823	Arterial standard	7.3	32.5 x 29.8 x 14.7	12	600	0.8 x 2.3
380 932	038 932	039 932	Arterial flat	4.1	26.4 x 26.0 x 11.8	10	600	0.8 x 2.3

POM ports are also available as kit (REF: 038 ...) and as kit with tunnelizer (REF: 039 ...).

### Huber-Needles

Cat.no.	Size / Length	Color	Cat.no.	Size / Length	Color
<b>Straight, HD</b>			<b>90° angled, HC</b>		
372 225	22 G 25 x 0.70 mm	Black	372 220	22 G 20 x 0.70 mm	Black
372 238	22 G 38 x 0.70 mm	Black	372 226	22 G 25 x 0.70 mm	Black
372 025	20 G 25 x 0.90 mm	Yellow	372 230	22 G 30 x 0.70 mm	Black
372 925	19 G 25 x 1.10 mm	Brown	372 026	20 G 25 x 0.90 mm	Yellow
<b>90° angled, with extension, HC</b>			372 030	20 G 30 x 0.90 mm	Yellow
373 ...	As 90° angled, HC ...		372 926	19 G 25 x 1.10 mm	Brown

Box: 50 pcs.

## Vessel surgery

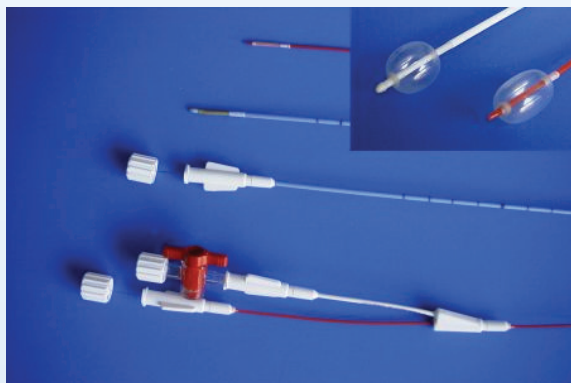
### Balloon catheters

The catheter is made of flexible radiopaque polyurethane with latex balloon and has an inside, removable steel mandrin for difficult vessel constitution. It has a soft tip to avoid vessel perforation. The balloon capacity is adapted to the corresponding lumen. The catheter sizes are colour-coded for easy identification and has marker rings at 10 cm intervals. The length of 40 cm is especially adequate for elimination of thrombi out of cannula dialysis.

The double lumen catheter with a length of 80 cm can be delivered in sizes 4 to 7 CH. The catheter is distal open and has at proximal a sideport with flexible line for balloon filling.

The biliary catheter with lengths of 23 to 40 cm is used to remove biliary stones and ductal debris intraoperatively.

The flush catheter (without balloon) is designed for irrigation after successful embolectomy, thrombectomy or bile-duct-operation.



Cat.no.	Frenche Size	Size [mm]	Length [cm]	Color	Balloon capacity [ml]	Balloon size [mm]
<b>Embolectomy catheter</b>						
100 240	2	0.7	40	Grey	liq 0.05 / gaz 0.20	4
100 260	2	0.7	60	Grey	liq 0.05 / gaz 0.20	4
100 340	3	1.0	40	Green	0.20	5
100 380	3	1.0	80	Green	0.20	5
100 440	4	1.3	40	Red	0.75	8
100 480	4	1.3	80	Red	0.75	8
100 540	5	1.7	40	White	1.50	10
100 580	5	1.7	80	White	1.50	10
100 680	6	2.0	80	Blue	2.00	13
100 780	7	2.3	80	Yellow	2.50	14
100 880	8	2.7	80	Brown	3.00	15
<b>Thrombectomy catheter</b>						
110 680	6	2.0	80	Blue	1.50	12
110 880	8	2.7	80	Brown	2.25	13
111 080	10	3.3	80	Grey	4.00	19
<b>Double lumen catheter with balloon</b>						
120 480	4	1.3	80	Red	0.75	8
120 580	5	1.7	80	White	1.50	10
120 680	6	2.0	80	Blue	2.00	13
120 780	7	2.3	80	Yellow	2.00	14
<b>Occlusion catheter</b>						
121 780	7	2.3	80	Yellow	15.00	30
121 880	8	2.7	80	Brown	38.00	40
<b>Biliary catheter with balloon</b>						
101 523	5	1.7	23	White	1.50	10
101 540	5	1.7	40	White	1.50	10
101 623	6	2.0	23	Blue	2.00	13
101 640	6	2.0	40	Blue	2.00	13
<b>Flush catheter without balloon</b>						
102 480	4	1.3	80	Red	-	-
102 580	5	1.7	80	White	-	-
102 680	6	2.0	80	Blue	-	-
102 180	10	3.3	80	Grey	-	-

Box: 10 pcs.



## Vessel surgery

### Disposable-Vein-Stripper

**Flexible Nylon wire - High tensile strength of the wire**

**Practical Handle - Free From Torsions and kinkings**

The high flexibility of the nylon wire facilitates the passage of venous valves and minimizes the number of incisions. The smooth wire guarantees easy and atraumatic passage within the veins as well as quick and problem-free shedding of the stripped veins. Thus the extended varices can be quickly controlled for tributary venous vessels and these can be searched specifically and then ligated.

One of the important features of the nylon wire is its high tensile strength.

An broad handle ensures an effective and thus strength and time-saving stripping of veins. The handle may be set up at any end, distal or proximal, just before stripping.

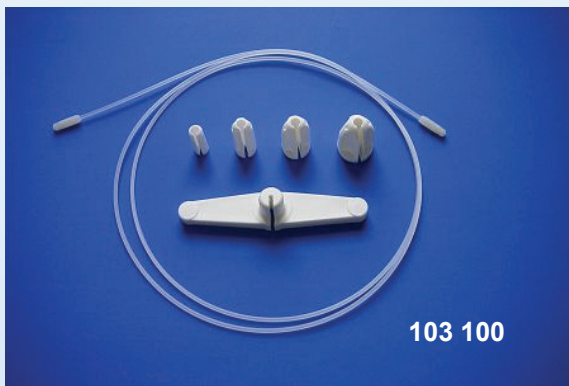
The disposable instrument is free of torsions and kinkings from prior operations. This warrants atraumatic and time-saving application.

**Anterograde and retrograde stripping**

The special designed olives, which can be clipped on each wire end after wire-passage through the vein, enable a retrograde as well as an anterograde stripping, independent from distal or proximal access.

**For sizes in one instrument**

The vein stripper may be provided with four various olives of 6. 9. 12. 15 mm diameter. Thus stripping varices of different sizes will be possible with one single instrument which means cost reducing.



**Technical data**

Length of the wire: 100 mm  
 Sizes of the olives: 6, 9, 12 + 15 mm Ø

Cat.no.	Description
103 100	With 1 wire
103 200	With 2 wires

**Box: 10 pcs.**

The sterile double-packaging provides an up-to-date aseptic technique.

## Index

011 000	20/28	331 ...	6	503 011	24	630 002	20
011 001	28	332 ...	7/8	503 012	24	701 030	18
012 006	19	334 ...	7	503 014	24	701 034	19
022 ...	30	370 ...	31	503 015	26	701 050	18
036 ...	31	372 ...	31	503 016	28	701 054	19
037 ...	31	373 ...	31	503 019	27	701 130	18
038 ...	31	380 ...	31	503 020	27	701 150	18
039 ...	31	401 ...	16	503 021	27	702 002	20
052 225	30	402 ...	16	503 022	27	702 003	20
100 ...	32	407 150	16	503 050	28	704 020	21
101 ...	32	433 ...	16	503 061	27	704 030	21
102 ...	32	440 ...	12	503 111	24	712 034	19
103 ...	33	451 ...	16	503 119	27	712 054	19
110 ...	32	452 ...	16	503 180	28	713 997	20
111 080	32	454 ...	16	503 201	25	713 998	20
120 ...	32	460 203	15	503 202	25	713 999	20
121 ...	32	461 060	16	503 203	25	714 075	21
250 ...	12	470 ...	13	503 211	25	714 120	21
252 ...	12	471 ...	13	503 401	23	715 784	19
300 001	12	472 ...	13	503 501	23	716 075	21
300 002	12	473 ...	13	504 ...	28	716 120	21
300 5..	9	482 ...	14	505 ...	26	717 075	21
300 6..	10	500 002	15	506 ...	29	717 120	21
300 8..	11	500 005	15	509 ...	22	718 075	21
301 100	12	500 015	15	611 010	17	718 120	21
302 ...	3	503 001	23	621 ...	17	801 000	20
305 ...	4	503 002	23	622 000	21	801 001	20
307 ...	5	503 003	23	622 001	21	801 002	20
323 ...	7/8	503 010	28	630 001	20		

## Information

All products are delivered **sterile** (ethylene oxide).

The products are for **single use only**, if not otherwise described.

Most of intra-products are **latex-free**. But for some products of our range it's not possible to do without. This is for the following products:

Flow-directed balloon-tipped catheter (Intrathermodin)	→	Balloon from Latex
In-Plug	→	Membrane from Latex
Pneumovent® valve	→	Inside lying valve from Latex
Catheters for vessel surgery (Embolectomies)	→	Balloon from Latex

## Company profile

The company **intra special catheters GmbH** was founded in 1977. Since then, we have provided our customers worldwide with special catheters for anaesthesiological wards and departments of internal medicine, intensive care and emergency medical care, cardiology and pneumology, which offer the users numerous benefits thanks to their optimum range of safety features included and their consistently high quality.

More than ever before, the success of a product is defined by its high and consistent quality. Therefore, we put our faith in qualified staff and are committed to highly advanced production premises. Of course all our products are manufactured and sterilized in accordance with GMP. Hence, only materials of highest purity and quality are used.

Our competence is the result of long years of experience. We take up new challenges by facing them with prompt technological developments. We believe that no product is so good that it could not be further improved. That is why innovation work is carried out in cooperation with physicians from research, universities and hospitals.

**intra** products are used in various fields of medicine; both in pneumology, where special catheters are used to remove pathological accumulations of air and/or fluid within the pleural cavity, and in intensive care as well as cardiology for invasive measurement of arterial/venous or pulmonary pressures.

Of course, we offer adequate accessories for all our special products.

Our enterprise is certified in compliance with the international standards ISO 13485:2003 and Annex II / V according to guideline 93/42/EEC. **intra** products bear the CE mark of the European Commission.



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