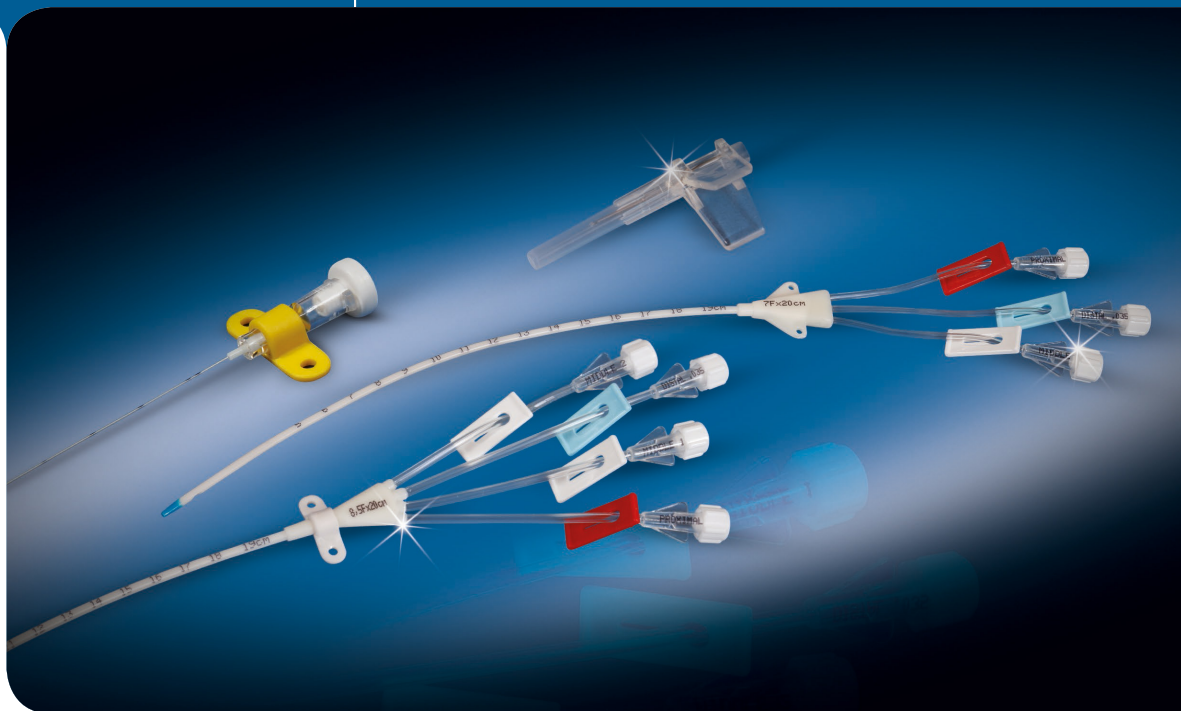




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Anaesthesiology

ANAESTHESIOLOGY

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EPIDURAL ANAESTHESIA SET LARGE, advanced



Set components:

Tuohy needle
epidural catheter
flat epidural filter 0.2 µm
self-adhesive element for filter fixing
scarifier 1.6 x 35 mm
needle for drug administration 0.9 x 40 mm
needle for subcutaneous anaesthesia 0.5 x 25 mm
10 ml low resistance syringe
10 ml regular syringe
sleeve

Reference:

ZZOR19G
ZZOR18G
ZZOR17G
ZZOR16G

Catheter size

22G (pediatric)
20G
19G
18G

Tuohy needle size / length

19G / 50 mm
18G / 80 mm
17G / 80 mm
16G / 80 mm

Epidural anaesthesia set enables continued or multiple administration of analgetic agents. Accessory devices increase the comfort of procedure performance.

Technical data:

- provides optimal development of the effectiveness
- safer catheter insertion and position control
- more safety thanks to the newly designed fixation system

NOTE: Single components of the set can be purchased.

When ordering use Ref. Number, e.g.: ZZOR18G.

Special order can contain epidural catheter with SOFT tip (only for catheter in size 20G) - when ordering use Ref. Number, e.g.: ZZOR18GS.

EPIDURAL ANAESTHESIA SET small



Set components:

Tuohy needle
epidural catheter
flat epidural filter 0.2 µm
sleeve

Reference:

ZZOM19G
ZZOM18G
ZZOM17G
ZZOM16G

Catheter size

22G (pediatric)
20G
19G
18G

Tuohy needle size / length

19G / 50 mm
18G / 80 mm
17G / 80 mm
16G / 80 mm

Epidural anaesthesia set enables continued or multiple administration of analgetic agents.

When ordering use Ref. Number, e.g.: ZZOM18G.

NOTE: The set can be purchased together with a low-resistance syringe. When ordering use Ref. Number, e.g.: ZZOM18GSN.

Special order can contain epidural catheter with SOFT tip (only for catheter i size 20G) - when ordering use ref. number, e.g.: ZZOM18GS.

ANAESTHESIA SET



Model set elements:

Epidural catheter
Epidural catheter hub
Sleeve
Flat epidural filter 0.2 µm
Self-adhesive element for filter fixing
Scarifier (1.6x35 mm)
Tuohy needle
Needle 25G (0,5 x 25 mm)
Needle 20G (0,9 x 40 mm)

Syringe 10 ml Luer
Low-resistance 10 ml Luer
Tray
Sterile field 72,5 x 90 cm
Sterile field 55 x 60 cm
Sterile field 55 x 60 cm, 10 cm hole, adhesive tape
Bowl 60 ml
Syringe 5 ml Luer
Syringe 3 ml Luer-Lock

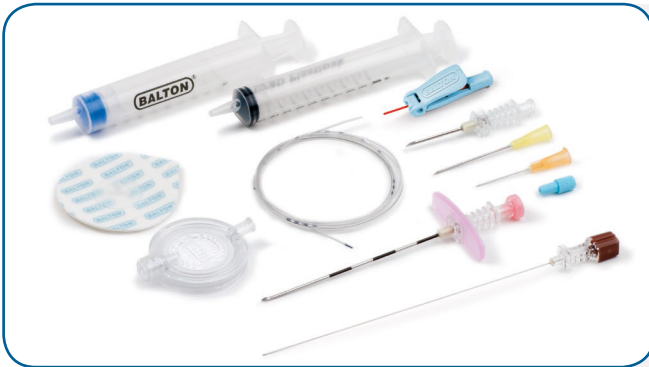
Guiding needle 22Gx38 mm
Spinal needle 27Gx90 mm
Injection needle 18G(1,30 x 40 mm)
Injection needle 22G(0,70 x 30 mm)
Filter needle 18Gx40 mm, 5 µm
Gauze swab 10 x10 cm
Gauze swab 7,5 x 7,5 cm
Disinfection sponge stick

Reference:	Catheter size	Tuohy needle size / length
ZZOR19GD	22G (pediatric)	19G / 50 mm
ZZOR18GD	20G	18G / 80 mm
ZZOR17GD	19G	17G / 80 mm
ZZOR16GD	18G	16G / 80 mm

When ordering use Ref. Number, e.g.: ZZOR18GD.

Special order can contain epidural catheter with SOFT tip (only for catheter in size 20G). When ordering use Ref. Number, e.g.: ZZOR18GSD.

COMBINED ANAESTHESIA SET (epidural-spinal block set, advanced) NEEDLE IN THE NEEDLE TYPE



Set components:

Tuohy needle
spinal needle 26G/130 mm (STANDARD)
epidural catheter
flat epidural filter 0.2 µm
low-resistance syringe 10 ml
10 ml regular syringe
scarifier 1.6 x 35 mm
needle for drug administration 0.9 x 40 mm
needle for subcutaneous anaesthesia 0.5 x 25 mm
sleeve

Reference:	Catheter size	Tuohy needle size	Spinal needle size / length
ZZOR18GI26130	20G	18G	26G / 130 mm
ZZOR16GI26130	18G	16G	26G / 130 mm

The combined anaesthesia set allows epidural and spinal anaesthesia using only one needle insertion site.

When ordering use Ref. Number, e.g.: ZZOR16GI26130.

COMBINED ANAESTHESIA SET (epidural-spinal block set, small) NEEDLE IN THE NEEDLE TYPE



Set components:

Tuohy needle
spinal needle 26G/130 mm (STANDARD)

Reference:	Spinal needle size / length	Tuohy needle size
ZZK18G	26G / 130 mm	18G
ZZK16G	26G / 130 mm	16G

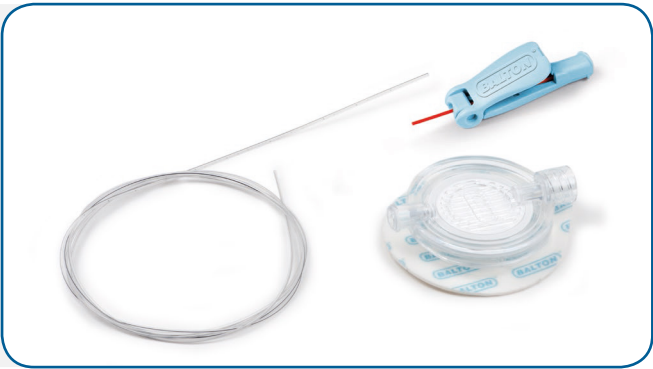
The combined anaesthesia set allows epidural and spinal anaesthesia using only one needle insertion site.

When ordering use Ref. Number, e.g.: ZZK18G.

ANALGETIC CONTROL SET

Set components:

epidural catheter (with openings at 50 mm and 150 mm of the length)
antibacterial filter 0.2 µm, approx 5 cm² of filtering surface



Reference:

ZA16G
ZA17G
ZA18G
ZA19G

Catheter
size / length

16G / 90 cm
17G / 90 cm
18G / 90 cm
19G / 90 cm

A surgical wound analgesia set that enables multiple administration of analgetic agents, directly into the wound.

When ordering use Ref. Number, e.g.: ZA19G.

LARGE VESSEL CATHETERIZATION SET

single lumen with split cannula, pediatric



Set components:

catheter 1.2F or 2F
split cannula

Reference:

ZKDN1.2F32IR
ZKDN2F18IR
ZKDN2F32IR

Catheter size / length

1.2F / 32 cm
2F / 18 cm
2F / 32 cm

Split cannula size

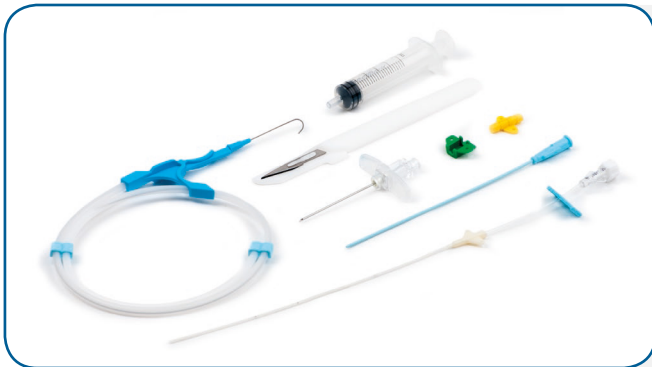
22G
20G
20G

When ordering use Ref. Number, e.g.: ZKDN2F32IR.

NOTE: On request we provide catheters with hydrophilic surface protection. When ordering use Ref. Number, e.g.: ZKDN2F18IRH.

LARGE VESSEL CATHETERIZATION SET

with single lumen cannula, Seldinger method, pediatric



Set components:

catheter
needle
guide wire

Additional 3F set components:

dilatator
scalpel
syringe 2.5 ml

Additional 4F set components:

dilatator
scalpel
syringe 5 ml

Reference:

ZKDN2F8
ZKDN3F10
ZKDN4F15

Catheter size / length

2F / 8 cm
3F / 10 cm
4F / 15 cm

Dilatator size

- - -
4F
5F

Needle size

22G / 38 mm
20G / 38 mm
19G / 50 mm

Guide wire size / length / type

.014" / 35 cm / straight
.022" / 40 cm / "J"
.027" / 48 cm / "J"

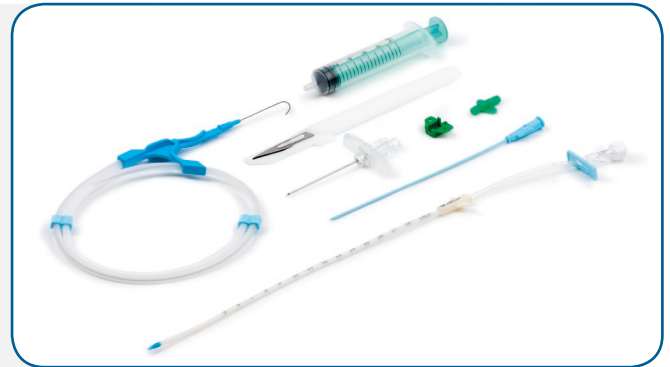
When ordering use Ref. Number, e.g.: ZKDN4F15.

NOTE: On request we provide catheters with hydrophilic surface protection. When ordering use Ref. Number, e.g.: ZKDN4F15H.

LARGE VESSEL CATHETERIZATION SET with single lumen cannula, Seldinger method

Set components:

catheter
needle
guide wire
dilatator
scalpel
regular syringe 10 ml



Reference:	Catheter size / length	Dilatator size	Needle size	Guide wire size / length / type
ZKDN5F20	5F / 20 cm	6F	18G / 7 cm	.035" / 60 cm / "J"
ZKDN6F20	6F / 20 cm	7F	18G / 7 cm	.038" / 60 cm / "J"
ZKDN7F20	7F / 20 cm	8F	18G / 7 cm	.038" / 60 cm / "J"
ZKDN8F20	8F / 20 cm	9F	18G / 7 cm	.038" / 60 cm / "J"
ZKDN9F20	9F / 20 cm	10F	18G / 7 cm	.038" / 60 cm / "J"
ZKDN10F20	10F / 20 cm	10F	18G / 7 cm	.038" / 60 cm / "J"

When ordering use Ref. Number, e.g.: ZKDN5F20.

NOTE: On request we provide catheters with hydrophilic surface protection. When ordering use Ref. Number, e.g.: ZKDN5F20H.

LARGE VESSEL CATHETERIZATION SET with double lumen cannula, Seldinger method

Set components:

catheter
needle
guide wire
dilatator
scalpel
regular syringe:
5 ml - for set 5F - catheter length 10 cm and 15 cm
10 ml - for set 5F - catheter length 20 cm and 30 cm
10 ml - for sets 6F to 11F



Reference:	Catheter size / length	Dilatator size	Needle size	Guide wire size / length / type
ZKDND5F15	5F / 15 cm	6F	19G / 5 cm	.022" / 48 cm / "J"
ZKDND6F20	6F / 20 cm	7F	19G / 5 cm	.027" / 60 cm / "J"
ZKDND7F20	7F / 20 cm	8F	18G / 7 cm	.035" / 60 cm / "J"
ZKDND8F20	8F / 20 cm	9F	18G / 7 cm	.035" / 60 cm / "J"
ZKDND11F20	11F / 20 cm	12F	18G / 7 cm	.035" / 60 cm / "J"

When ordering use Ref. Number, e.g.: ZKDND11F20.

NOTE: On request we provide catheters with hydrophilic surface protection. When ordering use Ref. Number, e.g.: ZKDND11F20H.

LARGE VESSEL CATHETERIZATION SET with triple lumen cannula, Seldinger method



Set components:

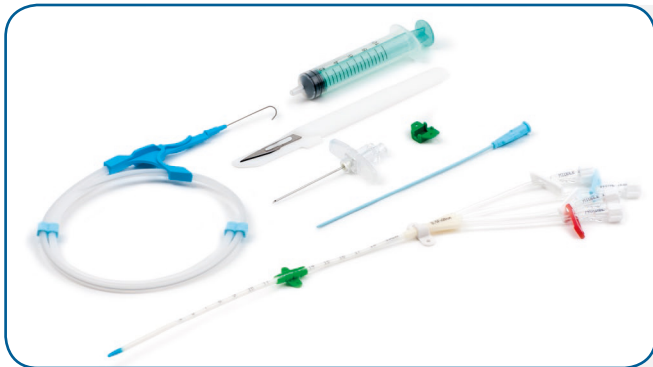
catheter
needle
guide wire
dilatator
scalpel
regular syringe:
2.5 ml - for set 4.5F
5 ml - for set 5F - catheter length 10 cm and 15 cm
10 ml - for set 5F - catheter length 20 cm and 30 cm
10 ml - for sets from 5.5F to 8F

Reference:	Catheter size / length	Dilatator size	Needle size / length	Guide wire size / length / type
ZKDNT4.5F10	4.5F / 10 cm	5F	21G / 3.8 cm	.018" / 40 cm / "J"
ZKDNT5F15	5F / 15 cm	6F	19G / 5 cm	.022" / 48 cm / "J"
ZKDNT5.5F15	5.5F / 15 cm	6F	19G / 5 cm	.022" / 48 cm / "J"
ZKDNT6F15	6F / 15 cm	7F	19G / 5 cm	.027" / 48 cm / "J"
ZKDNT7F20	7F / 20 cm	8F	18G / 7 cm	.035" / 60 cm / "J"
ZKDNT8F20	8F / 20 cm	9F	18G / 7 cm	.035" / 60 cm / "J"

When ordering use Ref. Number, e.g.: ZKDNT7F20.

NOTE: On request we provide catheters with hydrophilic surface protection. When ordering use Ref. Number, e.g.: ZKDNT7F20H.

LARGE VESSEL CATHETERIZATION SET with quadruple lumen cannula, Seldinger method



Set components:

catheter
needle
guide wire
dilatator
scalpel
regular syringe 10 ml

Reference:	Catheter size / length	Dilatator size	Needle size / length	Guide wire size / length / type
ZKDNIV8.5F20	8.5F / 20 cm	9F	18G / 7 cm	.035" / 60 cm / "J"

When ordering use Ref. Number, e.g.: ZKDNIV8.5F20.

NOTE: On request we provide catheters with hydrophilic surface protection. When ordering use Ref. Number, e.g.: ZKDNIV8.5F20H.

THERMODILUTION SET **Balkat**

Set components:

two-lumen catheter
J guidewire
dilatator
straight needle
syringe
scalpel
butterfly
clamp



Thermodilution Set is indicated for haemodynamic monitoring by means of an invasive method.

This method combines transpulmonary thermodilution with a computer analysis of arterial pressure waveform; moreover, it allows to determine cardiac minute volume and cardiac contractility in a precise way. It also creates new possibilities regarding the quantitative determination of the hydration degree of pulmonary parenchyma, and the achieved results are easy to interpret clinically.

Reference:	Catheter diameter	Catheter length	Guidewire diameter / length	Needle diameter / length	Dilatator
ZKT4F8	4F	8 cm	.022" / 48 cm	19G / 5 cm	5F
ZKT4F16	4F	16 cm	.022" / 48 cm	19G / 7 cm	5F
ZKT4F22	4F	22 cm	.022" / 60 cm	19G / 7 cm	5F
ZKT4F50	4F	50 cm	.022" / 100 cm	19G / 5 cm	5F
ZKT5F20	5F	20 cm	.022" / 60 cm	19G / 7 cm	6F

Technical data:

- material: PU
- the length between the thermistor and catheter end: 5mm (+5mm / -0mm)
- impedance for 37°C: 14.0k ω ±3%
- temperature measurement range: 0°C - 50°C

When ordering use Ref. Number, e.g.: ZKT5F20.

NOTE: On request we provide additional element of the set: Injectate temperature sensor. When ordering use Ref. Number, e.g.: ZKT5F20C.

The set may be supplemented by: Disposable Pressure Transducer, predisposed to blood pressure monitoring. Catalogue No. DPT260.

SPINAL ANAESTHESIA BLOCK SET WITH PENCIL-POINT NEEDLE



Set components:

PENCIL-POINT needle (Whitacre type)
guiding needle
subcutaneous anaesthesia needle 0.5 x 25 mm
needle for medicine drawing 0.9 x 40 mm
regular syringe 2.5 ml
regular syringe 5 ml

Reference:	Guiding needle size	Spinal needle PENCIL-POINT size	Hub colour
ZIPPW24G	20G	24G	violet
ZIPPW25G	20G	25G	orange
ZIPPW26G	20G	26G	brown
ZIPPW27G	22G	27G	grey

When ordering use Ref. Number, e.g.: ZIPPW27G.

SPINAL ANAESTHESIA BLOCK SET WITH STANDARD NEEDLE



Set components:

STANDARD needle (Quincke type)
guiding needle
subcutaneous anaesthesia needle 0.5 x 25 mm
needle for medicine drawing 0.9 x 40 mm
regular syringe 2.5 ml
regular syringe 5 ml

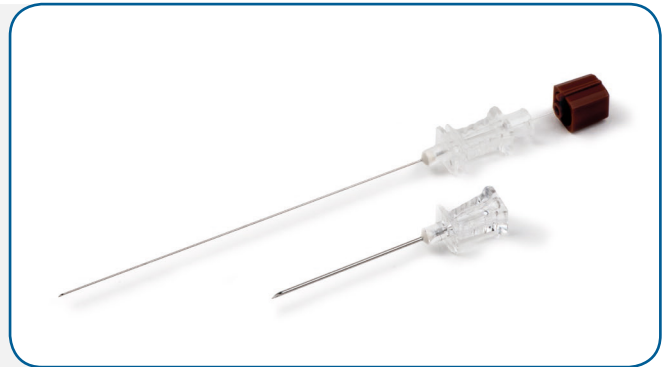
Reference:	Guiding needle size	Spinal needle STANDARD size / length	Hub colour
ZIPPS18G	- - -	18G / 90 mm	pink
ZIPPS19G	- - -	19G / 90 mm	cream
ZIPPS20G	- - -	20G / 90 mm	yellow
ZIPPS21G	- - -	21G / 90 mm	green
ZIPPS22G	- - -	22G / 90 mm	black
ZIPPS25G	20G	25G / 90 mm	orange
ZIPPS26G	20G	26G / 90 mm	brown
ZIPPS27G	22G	27G / 90 mm	grey
ZIPPS29G	22G	29G / 90 mm	red

When ordering use Ref. Number, e.g.: ZIPPS29G.

SPINAL ANAESTHESIA NEEDLE, PENCIL-POINT TYPE

Set components:

guiding needle
spinal needle, Pencil-Point type



Reference:	Guiding needle size	Spinal needle PENCIL-POINT size / length	Hub colour
IPPW24G90	20G	24G / 90 mm	violet
IPPW25G90	20G	25G / 90 mm	orange
IPPW26G90	20G	26G / 90 mm	brown
IPPW27G90	22G	27G / 90 mm	grey

When ordering use Ref. Number, e.g.: IPPW27G90.

SPINAL ANAESTHESIA NEEDLE, STANDARD (QUINCKE point)



Set components:

guiding needle
spinal needle standard (Quincke point)

Reference:	Guiding needle size	Spinal needle STANDARD size / length	Hub colour
IPPS18G50	- - -	18G / 50 mm	pink
IPPS18G90	- - -	18G / 90 mm	pink
IPPS19G50	- - -	19G / 50 mm	cream
IPPS19G90	- - -	19G / 90 mm	cream
IPPS20G50	- - -	20G / 50 mm	yellow
IPPS20G90	- - -	20G / 90 mm	yellow
IPPS21G50	- - -	21G / 50 mm	green
IPPS21G90	- - -	21G / 90 mm	green
IPPS22G50	- - -	22G / 50 mm	black
IPPS22G75	- - -	22G / 75 mm	black
IPPS22G90	- - -	22G / 90 mm	black
IPPS23G90	- - -	23G / 90 mm	blue
IPPS24G90	20G	24G / 90 mm	violet
IPPS25G50	20G	25G / 50 mm	orange
IPPS25G75	20G	25G / 75 mm	orange
IPPS25G90	20G	25G / 90 mm	orange
IPPS26G50	20G	26G / 50 mm	brown
IPPS26G90	20G	26G / 90 mm	brown
IPPS26G130	20G	26G / 130 mm	brown
IPPS27G90	22G	27G / 90 mm	grey
IPPS29G90	22G	29G / 90 mm	red

When ordering use Ref. Number, e.g.: IPPS27G90.

LUMBAR PUNCTURE NEEDLE (spinal needle STANDARD)



Reference:	Spinal needle STANDARD size / length	Hub colour
IPPS18G50	18G / 50 mm	pink
IPPS18G90	18G / 90 mm	pink
IPPS19G50	19G / 50 mm	cream
IPPS19G90	19G / 90 mm	cream
IPPS20G50	20G / 50 mm	yellow
IPPS20G90	20G / 90 mm	yellow
IPPS21G50	21G / 50 mm	green
IPPS21G90	21G / 90 mm	green

When ordering use Ref. Number, e.g.: IPPS21G90.

BIOPSY NEEDLES WESTCOTT TYPE



Reference:	Needle WESTCOTT type size / length
IBW18G140	18G / 140 mm
IBW20G140	20G / 140 mm

When ordering use Ref. Number, e.g.: IBW20G140.

BIOPSY NEEDLES MADAYAG TYPE

also recommended as a needle for neurolysis

**Reference:**

IBM18G150
IBM20G150
IBM20G200
IBM22G200

**Needle MADAYAG type
size / length**

18G / 150 mm
20G / 150 mm
20G / 200 mm
22G / 200 mm

When ordering use Ref. Number, e.g.: IBM20G150.

INFUSION PUMP EXTENDERS

A polyethylene (PE) extender is chemically more resistant.



Reference: transparent PVC	Reference: PE	Hub type	Tube length
PPI90LL	PPI90LLPE	luer-lock	90 cm
PPI120LL	PPI120LLPE	luer-lock	120 cm
PPI150LL	PPI150LLPE	luer-lock	150 cm

When ordering use Ref. Number, e.g.: PPI120LL.

We also offer extenders in different colours (for PVC only). To order a selected colour, add the appropriate letter corresponding to its catalogue number.

CZ - black, when ordering use Ref. Number, e.g.: PPI120LLCZ.

CZE - red, when ordering use Ref. Number, e.g.: PPI120LLCZE.

N - blue, when ordering use Ref. Number, e.g.: PPI120LLN.

POM - orange, when ordering use Ref. Number, e.g.: PPI120LLPOM.

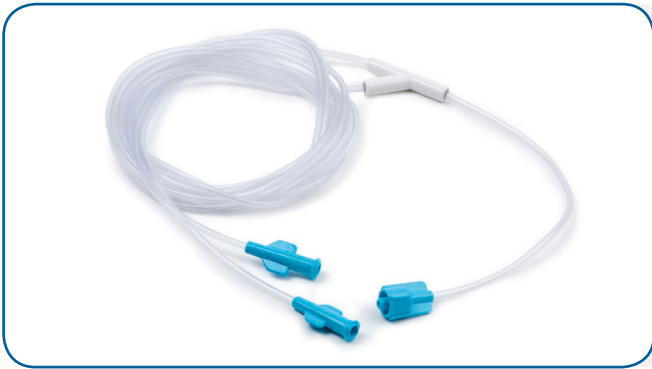
INFUSION PUMP EXTENDERS WITH THREE-WAY STOPCOCK with Luer-Lock hub



Reference:	Tube length	Hub colour
PPIK37LL	7 cm	transparent
PPIK310LL	10 cm	
PPIK320LL	20 cm	
PPIK390LL	90 cm	
PPIK3150LL	150 cm	
PPIK37LLCZ	7 cm	black
PPIK320LLCZ	20 cm	
PPIK390LLCZ	90 cm	
PPIK3150LLCZ	150 cm	

When ordering use Ref. Number, e.g.: PPIK3150LLCZ.

INFUSION PUMP EXTENDERS DUET with luer-lock hub

**Reference:**

PPI150LLD

When ordering use Ref. Number, e.g.: PPI150LLD.

Tube length

150 cm

UPPER RESPIRATORY TRACTS ASPIRATION CATHETERS

Standard: central hole and two side holes

The catheter enables the aspiration of upper respiratory tract discharge.

It is possible, depending on the kind of aspirated discharge, to match a catheter with an adequate distal tip (central hole and side holes).

The catheter is made from transparent material, which enables the observation of the discharge.

There are two catheter types: one is with controlled suction and the other one has no suction control.



Reference: standard with central hole and two side holes	Reference: standard with scale	Reference: with suction control and central hole and two side holes	Reference: with suction control and with scale	Catheter size / length	Hub colour
KOGD04F40C	---	---	---	4F / 40 cm	white
KOGD04F50C	---	---	---	4F / 50 cm	white
---	KOGD06F40CZ	---	KOGD06F40PZ	6F / 40 cm	green
KOGD06F50C	---	KOGD06F50P	---	6F / 50 cm	green
---	KOGD08F40CZ	---	KOGD08F40PZ	8F / 40 cm	blue
KOGD08F50C	---	KOGD08F50P	---	8F / 50 cm	blue
KOGD010F60C	---	KOGD010F60P	---	10F / 60 cm	black
KOGD012F60C	---	KOGD012F60P	---	12F / 60 cm	white
KOGD014F60C	---	KOGD014F60P	---	14F / 60 cm	green
KOGD016F60C	---	KOGD016F60P	---	16F / 60 cm	orange
KOGD018F60C	---	KOGD018F60P	---	18F / 60 cm	red

When ordering use Ref. Number, e.g.: KOGD018F60C.

NOTE: It is also possible to order the afore-mentioned types in the following versions:

A – only with central hole

When ordering use Ref. Number, e.g.: KOGD012F50A or KOGD012F50PA for version with suction control

B – with central and side holes

When ordering use Ref. Number, e.g.: KOGD016F60B or KOGD016F60PB for version with suction control

T – with an atraumatic tip and with suction control - available for sizes from 10F to 18F

When ordering use Ref. Number, e.g.: KOGD018F60PT

S – suitable for a syringe, available only for versions with central hole, sizes from 4F to 14F

When ordering use Ref. Number, e.g.: KOGD012F60AS.

PEDIATRIC POLYURETHANE CATHETER FOR UMBILICAL VEIN



The high quality x-ray line polyurethane pediatric catheter for the umbilical cord vein is used for cannulation of umbilical cord vessels. It can be utilised in exchange transfusions, measuring arterial blood pressure and blood collection. The catheter is made of polyurethane.

Reference:

KP4F40
KP5F40
KP6F40
KP8F40

Catheter size / length

4F / 40 cm
5F / 40 cm
6F / 40 cm
8F / 40 cm

When ordering use Ref. Number, e.g.: KP6F40.

FEEDING CATHETERS



The catheter is made of PVC.

Reference:

KK6F40
KK6F100
KK7F40
KK7F100
KK8F40
KK8F100
KK10F40
KK10F100

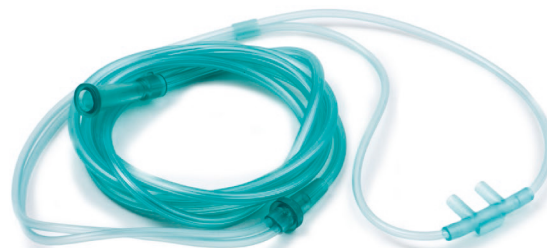
Catheter size / length

6F / 40 cm
6F / 100 cm
7F / 40 cm
7F / 100 cm
8F / 40 cm
8F / 100 cm
10F / 40 cm
10F / 100 cm

When ordering use Ref. Number, e.g.: KK10F100.

CATHETER FOR OXYGEN RHYNOSCOPICAL ADMINISTRATION

The catheter enables oxygen administration without provoking irritation or mucous membrane desiccation. The nasal tubes included in the set feature soft atraumatic tips that minimize damage to the mucous membrane and nose tissues. The catheter is made of PVC.



Reference:

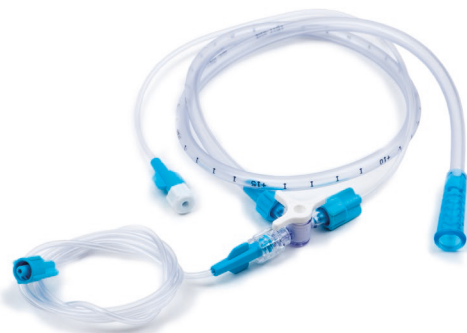
KTPN

When ordering use Ref. Number, e.g.: KTPN.

CENTRAL VENOUS PRESSURE MEASUREMENT SET

Set components:

drain connecting the central port with the set
measuring drain (graduated)
drain connecting with the drop set to fulfill the measuring system
three-way stopcock



Reference:

OCZ

When ordering use Ref. Number, e.g.: OCZ.

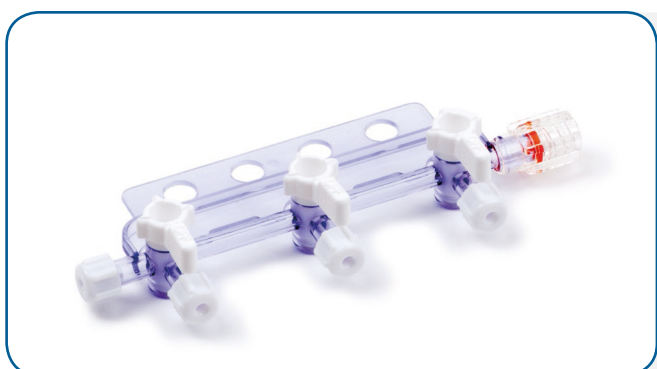
TWO-WAY STOPCOCK MANIFOLDS

**Reference:**

RAM2

When ordering use Ref. Number, e.g.: RAM2.

THREE-WAY STOPCOCK MANIFOLDS

**Reference:**

RAM3

When ordering use Ref. Number, e.g.: RAM3.

ONE-WAY STOPCOCK



Reference:

K1V20BARS

Description

high pressure

When ordering use Ref. Number, e.g.: K1V20BARS.

THREE-WAY STOPCOCK



Reference:

K3V
K3V20BARS

Description

low pressure
high pressure

When ordering use Ref. Number, e.g.: K3V20BARS.

NEONATAL MECONIUM ASPIRATOR



In the meconium aspiration syndrome, it is necessary to suction thick meconium not only from the nose and pharynx but also from the trachea. For the best results, the procedure should be performed before the first breath of the neonate. To this end, the infant should be intubated, and the intubation tube should be connected to the aspirator, which in turn should be connected to the suction source.

Reference:

ASP

When ordering use Ref. Number, e.g.: ASP.

BLOCKING SWITCH

**Reference:**

BL

When ordering use Ref. Number, e.g.: BL.

SCALPEL



Reference:

S

When ordering use Ref. Number, e.g.: S.



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