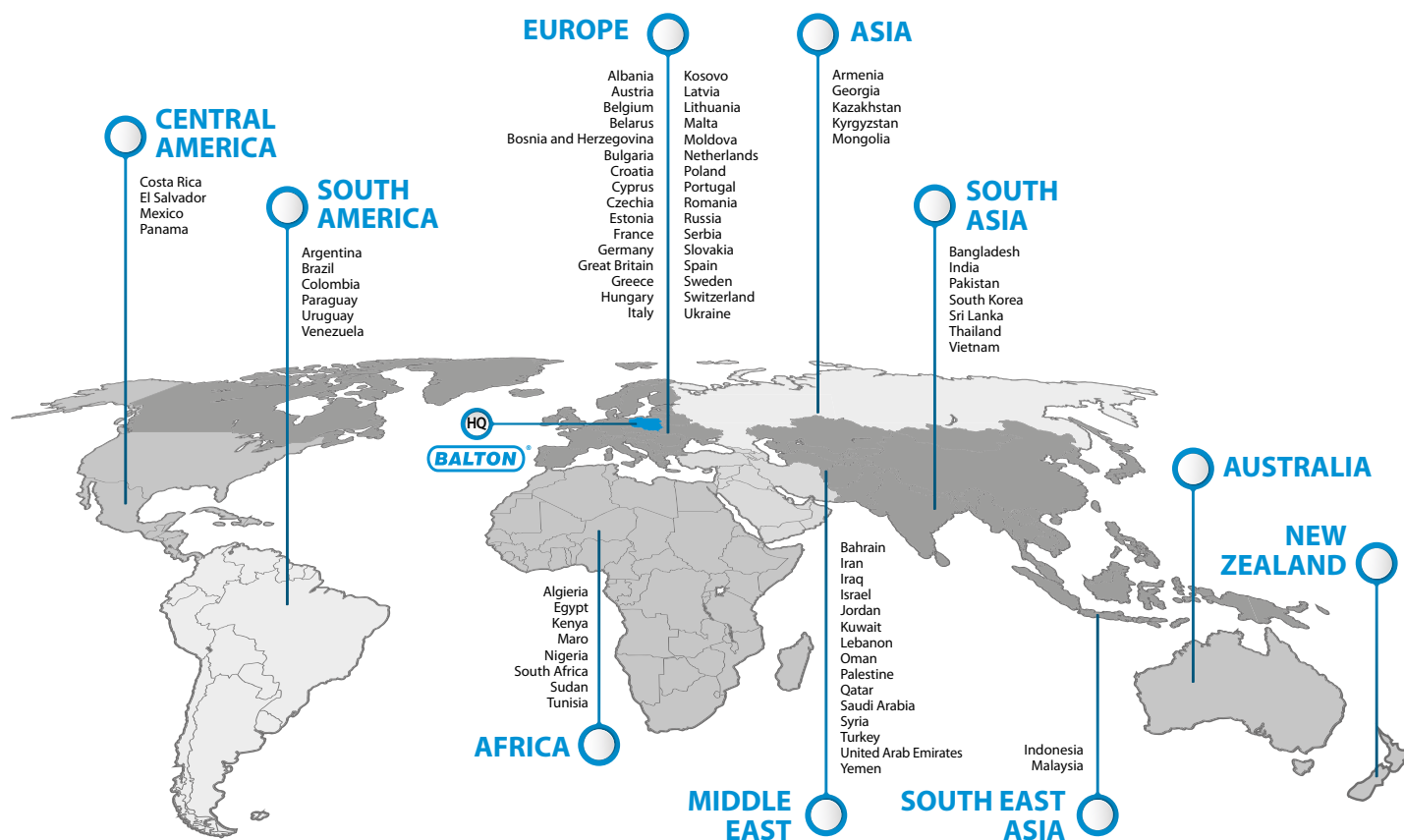


ANAESTHESIOLOGY

A comprehensive anaesthesiology device portfolio are used in every stage of healthcare from diagnosis to treatment.



Balton Sp. z o.o. is **the largest** Polish **manufacturer** of medical devices that improve health and save patients' lives in almost 80 countries on 6 continents.



We are a dynamically developing company, proud of our over **40-year history** marked with successes and technological innovations.

We specialise in the production of **disposable medical equipment** for cardiology, radiology, anaesthesiology, dialysis, surgery, gynaecology, urology, and in recent years also for phlebology.

In order to meet the requirements of modern medicine, we cooperate with various **universities and research centers** in Poland and around the world, incl. USA, Canada, France, Spain, Germany, Brazil and Russia.

We invest in the development of our own products and research of cutting-edge solutions in cooperation with leading medical authorities of respective fields. Which is why we are trusted by doctors to whom patients entrust their health and life.



ANAESTHESIOLOGY

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EPIDURAL ANAESTHESIA



EPIDURAL ANAESTHESIA SET ADVANCED



Set components:

- Tuohy needle
- epidural catheter with hub
- flat epidural filter 0.2 µm with self-adhesive element
- 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

Optional component:



system
for catheter fixation

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

- Provides optimal development of the effectiveness
- Safer catheter insertion and position control
- More safety thanks to the newly designed fixation system

| Reference: | Catheter size | Tuohy needle size | Tuohy needle length [mm] |
|------------|-----------------|-------------------|--------------------------|
| ZZOR19G | 22G (pediatric) | 19G | 50 |
| ZZOR18G | 20G | 18G | 80 |
| ZZOR17G | 19G | 17G | 80 |
| ZZOR16G | 18G | 16G | 80 |

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

NOTE: Special order can contain epidural catheter with SOFT tip. While ordering, add the letter "S" to the reference number – for example: ZZOR18GS. Special order can contain system for catheter fixation. While ordering, add the letters "EM" to the reference number – for example: ZZOR18GEM.



EPIDURAL ANAESTHESIA SET SMALL

Set components:

- Tuohy needle
- epidural catheter with hub
- flat epidural filter 0.2 µm with self-adhesive element
- sleeve



Optional component:



system
for catheter fixation



10 ml low resistance syringe

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

| Reference: | Catheter size | Tuohy needle size | Tuohy needle length [mm] |
|------------|-----------------|-------------------|--------------------------|
| ZZOM19G | 22G (pediatric) | 19G | 50 |
| ZZOM18G | 20G | 18G | 80 |
| ZZOM17G | 19G | 17G | 80 |
| ZZOM16G | 18G | 16G | 80 |

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

NOTE: The set can be purchased together with a low-resistance syringe. While ordering, add the letters "SN" to the reference number – for example: ZZOM18GSN.

Special order can contain epidural catheter with SOFT tip. While ordering, add the letter "S" to the reference number – for example: ZZOM18GS.

Special order can contain system for catheter fixation. While ordering, add the letters "EM" to the reference number – for example: ZZOM18GEM.



EPIDURAL ANAESTHESIA SET WITH ACCESSORIES FOR SPINAL AND COMBINED ANAESTHESIA



- Provides optimal development of the effectiveness
- Safer catheter insertion and position control
- More safety thanks to the newly designed fixation system

Model set elements:

- epidural catheter with hub
- system for catheter fixation
- sleeve
- flat epidural filter 0.2 μ m with self-adhesive element
- 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 μ m
- gauze swab 10 x10 cm
- gauze swab 7,5 x 7,5 cm
- disinfection sponge stick

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

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

NOTE: Special order can contain epidural catheter with SOFT tip. While ordering, add the letter "S" to the reference number – for example: ZZOR18GSD.



COMBINED ANAESTHESIA SET ADVANCED



Set components:

- Tuohy needle
- spinal needle
- epidural catheter with hub
- flat epidural filter 0.2 µm with self-adhesive element
- 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

Optional component:



system
for catheter fixation

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

| Reference: | Catheter size | Tuohy needle size | Tuohy needle length [mm] | Spinal needle size | Spinal needle length [mm] | Type spinal needle |
|---------------|---------------|-------------------|-----------------------------|--------------------|------------------------------|--------------------|
| ZZOR16GI26130 | 18G | 16G | 80 | 26G | 130 | standard |
| ZZOR16GI27130 | | | | 27G | 130 | standard |
| ZZOR18GI26130 | 20G | 18G | | 26G | 130 | standard |
| ZZOR18GI27130 | | | | 27G | 130 | standard |

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

NOTE: Special order can contain system for catheter fixation. While ordering, add the letters "EM" to the reference number – for example: ZZOR18GI26130EM.

Special order can contain epidural catheter with SOFT tip. While ordering, add the letter "S" to the reference number – for example: ZZOR18GSI26130.



COMBINED ANAESTHESIA SET SMALL

Set components:

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



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

| Reference: | Tuohy needle size | Tuohy needle length [mm] | Spinal needle size | Spinal needle length [mm] |
|------------|-------------------|-----------------------------|--------------------|------------------------------|
| ZZK18G | 18G | 80 | 26G | 130 |
| ZZK16G | 16G | | 26G | 130 |

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



EPIDURAL CATHETER



| Reference: | Catheter size |
|------------|---------------|
| KE18G | 18G |
| KE19G | 19G |
| KE20G | 20G |
| KE22G | 22G |

When ordering use Ref. Number, e.g.: KE18G.

NOTE: Special order can contain epidural catheter with SOFT tip. While ordering, add the letter "S" to the reference number – for example: KE18GS



TUOHY NEEDLE



| Reference: | Tuohy needle size | Tuohy needle length [mm] |
|------------|-------------------|--------------------------|
| IT16G | 16G | 80 |
| IT17G | 17G | 80 |
| IT18G | 18G | 80 |
| IT19G | 19G | 50 |

When ordering use Ref. Number, e.g.: IT16G.



ANALGETIC CONTROL SET



Set components:

- epidural catheter with hub (openings at 50 mm and 150 mm of the catheter length)
- flat epidural filter 0.2 µm with self-adhesive element

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

| Reference: | Catheter size | Catheter length [cm] |
|------------|---------------|----------------------|
| ZA18G | 18G | 90 |
| ZA19G | 19G | 90 |
| ZA20G | 20G | 90 |

When ordering use Ref. Number, e.g.: ZA20G.



LARGE VESSEL CATHETERIZATION



LARGE VESSEL CATHETERIZATION SET

single lumen with split cannula, pediatric

Set components:

- catheter 1.2F or 2F
- split cannula
- syringe 2.5 ml
- ruler 60 cm



| Reference: | Catheter size | Catheter length [cm] | Split cannula size | Needle length [mm] |
|--------------|---------------|----------------------|--------------------|--------------------|
| ZKDN1.2F18IR | 1.2F | 18 | 22G | 19 |
| ZKDN1.2F32IR | 1.2F | 32 | | |
| ZKDN2F18IR | 2F | 18 | 20G | 25 |
| ZKDN2F32IR | 2F | 32 | | |

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.

On request (please contact us for more information)

ZKDN1.2F (length from 5 to 32 cm)IR

ZKDN2F (length from 5 to 32 cm)IR

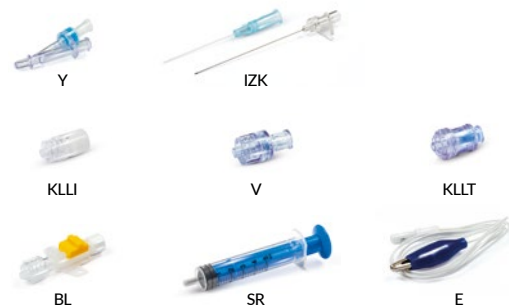


LARGE VESSEL CATHETERIZATION SET

with single lumen cannula, pediatric, Seldinger method



Optional components



2F set components:

- catheter
- needle
- guide wire

3F set components:

- catheter
- needle
- guide wire
- dilator
- scalpel
- syringe 2.5 ml

4F set components:

- catheter
- needle
- guide wire
- dilator
- scalpel
- syringe 5 ml

| Reference: | Catheter size | Catheter length [cm] | Dilator size | Needle size | Needle length [mm] | Guide wire size [inch] | Guide wire length [cm] | Guide wire type |
|------------|---------------|----------------------|--------------|-------------|--------------------|------------------------|------------------------|-----------------|
| ZKDN2F8 | 2F | 8 | - - - | 22G | 38 | .014" | 35 | straight |
| ZKDN2F10 | 2F | 10 | - - - | | | | | |
| ZKDN3F10 | 3F | 10 | 4F | 20G | | .022" | 40 | "J" |
| ZKDN3F15 | 3F | 15 | 4F | | | | | |
| ZKDN4F10 | 4F | 10 | 5F | 19G | 50 | 48 | | |
| ZKDN4F15 | 4F | 15 | 5F | | | 60 | | |
| ZKDN4F20 | 4F | 20 | 5F | | | | | |

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.

NOTE:

It is possible to configure the set by adding the selected or all the additional components:

Y – Y hub

SR – Guiding syringe 5 ml

KLLT – TEGO connector

BL – Blocking switch

V – One way valve cap

E – ECG flex

KLLI – Injection cap

IZK – Catheter introducer

N – Nitinol guide wire

While ordering, add the ending to the reference number:

Y or/and SR or/ and KLLT or/and BL or/and V or/and E or/and KLLI or/and IZK or/and N – for example: ZKDN4F20YKLLT.

On request (please contact us for more information)

ZKDN2F (length from 5 to 20 cm)

ZKDN3F (length from 5 to 45 cm)

ZKDN4F (length from 5 to 45 cm)

ZKDN4.5F (length from 5 to 45 cm)

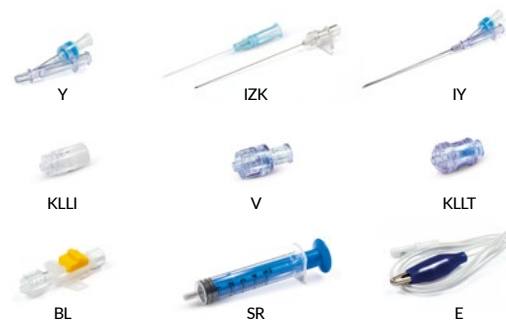


LARGE VESSEL CATHETERIZATION SET

with single lumen cannula, Seldinger method



Optional components



Set components:

- catheter
- needle
- guide wire
- dilator
- scalpel
- regular syringe 10 ml

| Reference: | Catheter size | Catheter length [cm] | Dilator size | Needle size | Needle length [mm] | Guide wire size [inch] | Guide wire length [cm] | Guide wire type |
|------------|---------------|----------------------|--------------|-------------|--------------------|------------------------|------------------------|-----------------|
| ZKDN5F10 | 5F | 10 | 6F | 18G | 70 | .035" | 48 | "J" |
| ZKDN5F15 | 5F | 15 | 6F | | | | 48 | |
| ZKDN5F20 | 5F | 20 | 6F | | | | 60 | |
| ZKDN5F30 | 5F | 30 | 6F | | | | 80 | |
| ZKDN6F15 | 6F | 15 | 7F | | | .038" | 48 | |
| ZKDN6F20 | 6F | 20 | 7F | | | | 60 | |
| ZKDN6F30 | 6F | 30 | 7F | | | | 80 | |
| ZKDN7F15 | 7F | 15 | 8F | | | | 48 | |
| ZKDN7F20 | 7F | 20 | 8F | | | | 60 | |
| ZKDN7F30 | 7F | 30 | 8F | | | | 80 | |
| ZKDN7.5F15 | 7.5F | 15 | 8F | | | | 48 | |
| ZKDN7.5F20 | 7.5F | 20 | 8F | | | | 60 | |
| ZKDN8F15 | 8F | 15 | 9F | | | | 48 | |
| ZKDN8F20 | 8F | 20 | 9F | | | | 60 | |
| ZKDN9F15 | 9F | 15 | 10F | | | | 48 | |
| ZKDN9F20 | 9F | 20 | 10F | | | | 60 | |
| ZKDN10F20 | 10F | 20 | 10F | | | | 60 | |
| ZKDN11F20 | 11F | 20 | 12F | | | | 60 | |

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.

NOTE:

It is possible to configure the set by adding the selected or all the additional components:

Y – Y hub

SR – Guiding syringe 5 ml

KLLT – TEGO connector

BL – Blocking switch

V – One way valve cap

E – ECG flex

KLLI – Injection cap

IZK – Catheter introducer

IY – V needle

N – Nitinol guide wire

While ordering, add the ending to the reference number:

Y or/and SR or/ and KLLT or/and BL or/and V or/and E or/and KLLI or/and IZK or/and IY or/ and N – for example: ZKDN5F20YKLLT.

On request

(please contact us for more information)

ZKDN5F (length from 5 to 60 cm)

ZKDN5.5F (length from 5 to 60 cm)

ZKDN6F (length from 5 to 60 cm)

ZKDN7F (length from 5 to 60 cm)

ZKDN7.5F (length from 5 to 60 cm)

ZKDN8F (length from 5 to 60 cm)

ZKDN9F (length from 5 to 60 cm)

ZKDN10F (length from 5 to 60 cm)

ZKDN11F (length from 5 to 60 cm)

Availability and specifications are subject to change. For more information, please contact your Balton sales representative.

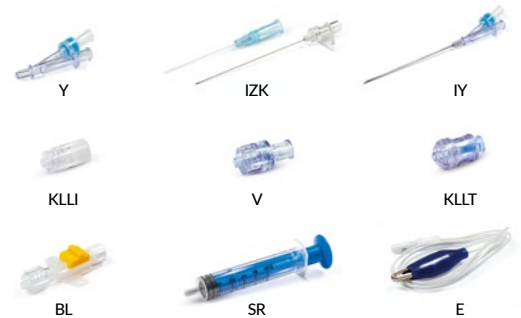


LARGE VESSEL CATHETERIZATION SET

with double lumen cannula, Seldinger method



Optional components



Set components:

- catheter
- needle
- guide wire
- dilatator
- scalpel
- regular syringe:
 - 2.5 ml – for 3F set – catheter length 10 cm and 15 cm
 - 2.5 ml – for 4F set – catheter length 10 cm and 15 cm
 - 5 ml – for 3F set – catheter length 20 cm
 - 5 ml – for 4F set – catheter length 20 cm and 30 cm
 - 5 ml – for 5F set – catheter length 10 cm and 15 cm
 - 10 ml – for 5F set – catheter length 20 cm and 30 cm
 - 10 ml – for 6F to 11F sets

| Reference: | Catheter size | Catheter length [cm] | Dilatator size | Needle size | Needle length [mm] | Guide wire size [inch] | Guide wire length [cm] | Guide wire type |
|------------|---------------|----------------------|----------------|-------------|--------------------|------------------------|------------------------|-----------------|
| ZKDND3F10 | 3F | 10 | 4F | 21G | 38 | .017" | 48 | "J" |
| ZKDND3F15 | 3F | 15 | 4F | | | | 48 | |
| ZKDND3F20 | 3F | 20 | 4F | | | | 60 | |
| ZKDND4F10 | 4F | 10 | 5F | 20G | | .022" | 48 | |
| ZKDND4F15 | 4F | 15 | 5F | | | | 48 | |
| ZKDND4F20 | 4F | 20 | 5F | | | | 60 | |
| ZKDND4F30 | 4F | 30 | 5F | | | | 80 | |
| ZKDND5F10 | 5F | 10 | 6F | 19G | 50 | | 48 | |
| ZKDND5F15 | 5F | 15 | 6F | | | | 48 | |
| ZKDND5F20 | 5F | 20 | 6F | | | | 60 | |
| ZKDND5F30 | 5F | 30 | 6F | | | | 80 | |
| ZKDND6F15 | 6F | 15 | 7F | | 70 | .027" | 48 | |
| ZKDND6F20 | 6F | 20 | 7F | | | | 60 | |
| ZKDND6F30 | 6F | 30 | 7F | 80 | | | | |
| ZKDND7F15 | 7F | 15 | 8F | 18G | .035" | 48 | | |
| ZKDND7F20 | 7F | 20 | 8F | | | 60 | | |
| ZKDND7F30 | 7F | 30 | 8F | | | 80 | | |
| ZKDND8F15 | 8F | 15 | 9F | | | 48 | | |
| ZKDND8F20 | 8F | 20 | 9F | | | 60 | | |
| ZKDND8F30 | 8F | 30 | 9F | | | 80 | | |

Availability and specifications are subject to change. For more information, please contact your Balton sales representative.



LARGE VESSEL CATHETERIZATION SET

with double lumen cannula, Seldinger method

| Reference: | Catheter size | Catheter length [cm] | Dilatator size | Needle size | Needle length [mm] | Guide wire size [inch] | Guide wire length [cm] | Guide wire type |
|------------|---------------|----------------------|----------------|-------------|--------------------|------------------------|------------------------|-----------------|
| ZKDND9F15 | 9F | 15 | 10F | 18G | 70 | .035" | 48 | "J" |
| ZKDND9F20 | 9F | 20 | 10F | | | | 60 | |
| ZKDND10F15 | 10F | 15 | 10F | | | | 48 | |
| ZKDND10F20 | 10F | 20 | 10F | | | | 60 | |
| ZKDND11F15 | 11F | 15 | 12F | | | | 48 | |
| ZKDND11F20 | 11F | 20 | 12F | | | | 60 | |

When ordering use Ref. Number, e.g.: ZKDND6F20.

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

NOTE:

It is possible to configure the set by adding the selected or all the additional components:

Y – Y hub

SR – Guiding syringe 5 ml

KLLT – TEGO connector

BL – Blocking switch

V – One way valve cap

E – ECG flex

KLLI – Injection cap

IZK – Catheter introducer

IY – V needle

N – Nitinol guide wire

While ordering, add the ending to the reference number:

Y or/and SR or/ and KLLT or/and BL or/and V or/and E or/and KLLI or/and IZK or/and IY or/ and N – for example: ZKDND6F20YKLLT.

On request (please contact us for more information)

ZKDND3F (length from 5 to 30 cm)

ZKDND4F (length from 5 to 30 cm)

ZKDND4.5F (length from 5 to 30 cm)

ZKDND5F (length from 5 to 30 cm)

ZKDND5.5F (length from 5 to 30 cm)

ZKDND6F (length from 5 to 30 cm)

ZKDND7F (length from 5 to 30 cm)

ZKDND7.5F (length from 5 to 30 cm)

ZKDND8F (length from 5 to 30 cm)

ZKDND8.5F (length from 5 to 30 cm)

ZKDND9F (length from 5 to 30 cm)

ZKDND10F (length from 5 to 30 cm)

ZKDND11F (length from 5 to 30 cm)

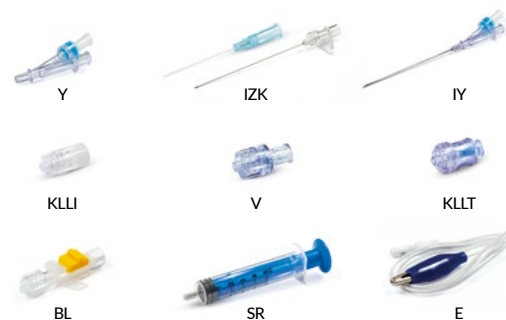


LARGE VESSEL CATHETERIZATION SET

with triple lumen cannula, Seldinger method



Optional components



Set components:

- catheter
- needle
- guide wire
- dilator
- scalpel
- regular syringe:
 - 2.5 ml – for 4F set
 - 2.5 ml – for 4.5F set
 - 5 ml – for 5F set – catheter length 10 cm and 15 cm
 - 10 ml – for 5F set – catheter length 20 cm
 - 10 ml – for 6F to 11F sets

| Reference: | Catheter size | Catheter length [cm] | Dilator size | Needle size | Needle length [mm] | Guide wire size [inch] | Guide wire length [cm] | Guide wire type |
|-------------|---------------|----------------------|--------------|-------------|--------------------|------------------------|------------------------|-----------------|
| ZKDNT4F10 | 4F | 10 | 5F | 21G | 38 | .018" | 48 | "J" |
| ZKDNT4F15 | 4F | 15 | 5F | | | | 48 | |
| ZKDNT4F20 | 4F | 20 | 5F | | | | 60 | |
| ZKDNT4.5F10 | 4.5F | 10 | 5F | | | | 40 | |
| ZKDNT4.5F15 | 4.5F | 15 | 5F | | | | 48 | |
| ZKDNT5F10 | 5F | 10 | 6F | 19G | 50 | .022" | 48 | |
| ZKDNT5F15 | 5F | 15 | 6F | | | | 48 | |
| ZKDNT5F20 | 5F | 20 | 6F | | | | 60 | |
| ZKDNT5.5F10 | 5.5F | 10 | 6F | | | | 48 | |
| ZKDNT5.5F15 | 5.5F | 15 | 6F | | | | 48 | |
| ZKDNT6F10 | 6F | 10 | 7F | | | .027" | 48 | |
| ZKDNT6F15 | 6F | 15 | 7F | | | | 48 | |
| ZKDNT6F20 | 6F | 20 | 7F | | | | 60 | |
| ZKDNT7F15 | 7F | 15 | 8F | 18G | 70 | .035" | 48 | |
| ZKDNT7F20 | 7F | 20 | 8F | | | | 60 | |
| ZKDNT7F30 | 7F | 30 | 8F | | | | 80 | |
| ZKDNT7.5F15 | 7.5F | 15 | 8F | | | | 48 | |
| ZKDNT7.5F20 | 7.5F | 20 | 8F | | | | 60 | |
| ZKDNT8F15 | 8F | 15 | 9F | | | | 48 | |
| ZKDNT8F20 | 8F | 20 | 9F | | | | 60 | |
| ZKDNT8.5F15 | 8.5F | 15 | 9F | | | | 48 | |
| ZKDNT8.5F20 | 8.5F | 20 | 9F | | | | 60 | |

Availability and specifications are subject to change. For more information, please contact your Balton sales representative.



LARGE VESSEL CATHETERIZATION SET

with triple lumen cannula, Seldinger method

| Reference: | Catheter size | Catheter length [cm] | Dilatator size | Needle size | Needle length [mm] | Guide wire size [inch] | Guide wire length [cm] | Guide wire type |
|------------|---------------|----------------------|----------------|-------------|--------------------|------------------------|------------------------|-----------------|
| ZKDNT9F20 | 9F | 20 | 10F | 18G | 70 | .035" | 60 | "J" |
| ZKDNT11F20 | 11F | 20 | 12F | | | | 60 | |

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.

NOTE:

It is possible to configure the set by adding the selected or all the additional components:

Y – Y hub

SR – Guiding syringe 5 ml

KLLT – TEGO connector

BL – Blocking switch

V – One way valve cap

E – ECG flex

KLLI – Injection cap

IZK – Catheter introducer

IY – V needle

N – Nitinol guide wire

While ordering, add the ending to the reference number:

Y or/and SR or/ and KLLT or/and BL or/and V or/and E or/and KLLI or/and IZK or/and IY or/ and N – for example: ZKDNT7F20YKLLT.

On request (please contact us for more information)

ZKDNT4F (length from 5 to 30 cm)

ZKDNT4.5F (length from 5 to 30 cm)

ZKDNT5F (length from 5 to 30 cm)

ZKDNT5.5F (length from 5 to 30 cm)

ZKDNT6F (length from 5 to 30 cm)

ZKDNT7F (length from 5 to 30 cm)

ZKDNT7.5F (length from 5 to 30 cm)

ZKDNT8F (length from 5 to 30 cm)

ZKDNT8.5F (length from 5 to 30 cm)

ZKDNT9F (length from 5 to 30 cm)

ZKDNT11F (length from 5 to 30 cm)

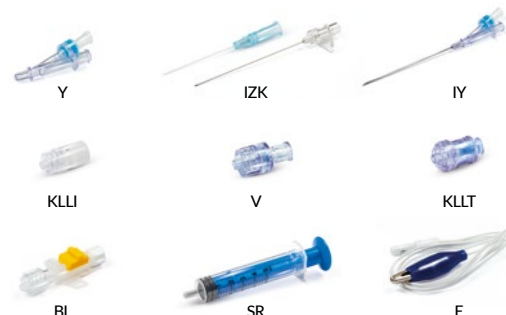


LARGE VESSEL CATHETERIZATION SET

with quadruple lumen cannula, Seldinger method



Optional components



Set components:

- catheter
- needle
- guide wire
- dilatator
- scalpel
- regular syringe 10 ml

| Reference: | Catheter size | Catheter length [cm] | Dilatator size | Needle size | Needle length [mm] | Guide wire size [inch] | Guide wire length [cm] | Guide wire type |
|--------------|---------------|----------------------|----------------|-------------|--------------------|------------------------|------------------------|-----------------|
| ZKDNIV7F15 | 7F | 15 | 8F | 18G | 70 | .035" | 48 | "J" |
| ZKDNIV7F20 | 7F | 20 | 8F | | | | 60 | |
| ZKDNIV7F30 | 7F | 30 | 8F | | | | 80 | |
| ZKDNIV8F15 | 8F | 15 | 9F | | | | 48 | |
| ZKDNIV8F20 | 8F | 20 | 9F | | | | 60 | |
| ZKDNIV8.5F15 | 8.5F | 15 | 9F | | | | 48 | |
| ZKDNIV8.5F20 | 8.5F | 20 | 9F | | | | 60 | |

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.

NOTE:

It is possible to configure the set by adding the selected or all the additional components:

Y – Y hub

SR – Guiding syringe 5 ml

KLLT – TEGO connector

BL – Blocking switch

V – One way valve cap

E – ECG flex

KLLI – Injection cap

IZK – Catheter introducer

IY – V needle

N – Nitinol guide wire

While ordering, add the ending to the reference number:

Y or/and SR or/ and KLLT or/and BL or/and V or/and E or/and KLLI or/and IZK or/and IY or/ and N – for example: ZKDNIV8.5F20YKLLT.

On request (please contact us for more information)

ZKDNIV7F (length from 15 to 30 cm)

ZKDNIV8F (length from 15 to 30 cm)

ZKDNIV8.5F (length from 15 to 30 cm)



SPINAL ANAESTHESIA



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 | Spinal needle PENCIL-POINT length [mm] | Hub colour |
|-------------|---------------------|------------------------------------|--|------------|
| ZIPPW22G | - - - | 22G | 90 | black |
| ZIPPW24G | 20G | 24G | 90 | violet |
| ZIPPW25G | 20G | 25G | 90 | orange |
| ZIPPW25G120 | 20G | 25G | 120 | orange |
| ZIPPW26G | 20G | 26G | 90 | brown |
| ZIPPW26G120 | 20G | 26G | 120 | brown |
| ZIPPW27G | 22G | 27G | 90 | grey |
| ZIPPW27G120 | 22G | 27G | 120 | grey |

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



SPINAL ANAESTHESIA BLOCK SET

Standard type



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

When ordering use Ref. Number, e.g.: ZIPPS27G.



SPINAL ANAESTHESIA NEEDLE

Pencil-Point type

■ Set components:

- guiding needle
- spinal needle, Pencil-Point type



| Reference: | Guiding needle size | Spinal needle PENCIL-POINT size | Spinal needle PENCIL-POINT length [mm] | Hub colour |
|------------|---------------------|------------------------------------|--|------------|
| IPPW22G90 | - - - | 22G | 90 | black |
| IPPW24G90 | 20G | 24G | 90 | violet |
| IPPW25G90 | 20G | 25G | 90 | orange |
| IPPW25G120 | 20G | 25G | 120 | orange |
| IPPW26G90 | 20G | 26G | 90 | brown |
| IPPW26G120 | 20G | 26G | 120 | brown |
| IPPW27G90 | 22G | 27G | 90 | grey |
| IPPW27G120 | 22G | 27G | 120 | 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 | Spinal needle STANDARD length [mm] | Hub colour |
|------------|---------------------|-----------------------------|------------------------------------|------------|
| IPPS18G50 | --- | 18G | 50 | pink |
| IPPS18G90 | --- | | 90 | |
| IPPS19G50 | --- | 19G | 50 | cream |
| IPPS19G90 | --- | | 90 | |
| IPPS20G50 | --- | 20G | 50 | yellow |
| IPPS20G75 | --- | | 75 | |
| IPPS20G90 | --- | | 90 | |
| IPPS21G50 | --- | 21G | 50 | green |
| IPPS21G90 | --- | | 90 | |
| IPPS22G50 | --- | 22G | 50 | black |
| IPPS22G75 | --- | | 75 | |
| IPPS22G90 | --- | | 90 | |
| IPPS23G90 | --- | 23G | 90 | blue |
| IPPS24G90 | 20G | 24G | 90 | violet |
| IPPS25G50 | | 25G | 50 | orange |
| IPPS25G75 | | | 75 | |
| IPPS25G90 | | | 90 | |
| IPPS26G50 | | 26G | 50 | brown |
| IPPS26G90 | | | 90 | |
| IPPS26G130 | | | 130 | |
| IPPS27G90 | 22G | 27G | 90 | grey |
| IPPS27G130 | | 27G | 130 | |
| IPPS29G90 | | 29G | 90 | red |

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

Availability and specifications are subject to change. For more information, please contact your Balton sales representative.



INFUSION PUMP EXTENDERS

Availability and specifications are subject to change. For more information, please contact your Balton sales representative.



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2022.01



INFUSION PUMP EXTENDERS



A polyethylene (PE) extender is chemically more resistant.

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

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



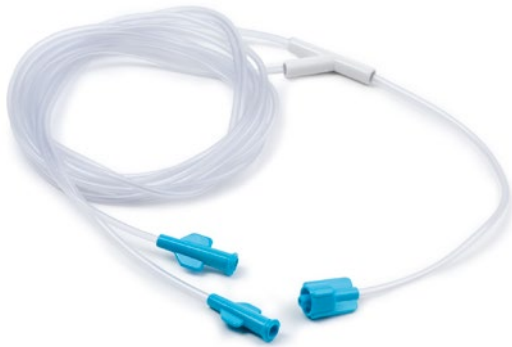
| Reference: | Tube length [cm] | Tube colour |
|--------------|---------------------|-------------|
| PPIK37LL | 7 | transparent |
| PPIK310LL | 10 | |
| PPIK320LL | 20 | |
| PPIK390LL | 90 | |
| PPIK3150LL | 150 | |
| PPIK37LLCZ | 7 | black |
| PPIK320LLCZ | 20 | |
| PPIK390LLCZ | 90 | |
| PPIK3150LLCZ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

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



INFUSION PUMP EXTENDERS DUET

with luer-lock hub



Reference:

PPI150LLD

Tube length
[cm]

150

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



OTHER PRODUCTS



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 | Catheter size | Catheter length [cm] | Hub colour |
|---|--------------------------------------|---|------------------|-------------------------|------------|
| KOGDO4F40C | - - - | - - - | 4F | 40 | white |
| KOGDO4F50C | - - - | - - - | | 50 | |
| - - - | KOGDO6F40CZ | - - - | 6F | 40 | green |
| KOGDO6F50C | - - - | KOGDO6F50P | | 50 | |
| - - - | KOGDO8F40CZ | - - - | 8F | 40 | blue |
| KOGDO8F50C | - - - | KOGDO8F50P | | 50 | |
| KOGDO10F60C | - - - | KOGDO10F60P | 10F | 60 | black |
| KOGDO12F60C | - - - | KOGDO12F60P | 12F | 60 | white |
| KOGDO14F60C | - - - | KOGDO14F60P | 14F | 60 | green |
| KOGDO16F60C | - - - | KOGDO16F60P | 16F | 60 | orange |
| KOGDO18F60C | - - - | KOGDO18F60P | 18F | 60 | red |

When ordering use Ref. Number, e.g.: KOGDO18F60C.

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.: KOGDO12F50A or KOGDO12F50PA for version with suction control

B – with central and side holes

When ordering use Ref. Number, e.g.: KOGDO16F60B or KOGDO16F60PB for version with suction control

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

When ordering use Ref. Number, e.g.: KOGDO12F60AS.



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.

| Reference: | Catheter size | Catheter length [cm] |
|------------|---------------|-------------------------|
| KP4F40 | 4F | 40 |
| KP5F40 | 5F | |
| KP6F40 | 6F | |
| KP8F40 | 8F | |

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



FEEDING CATHETERS



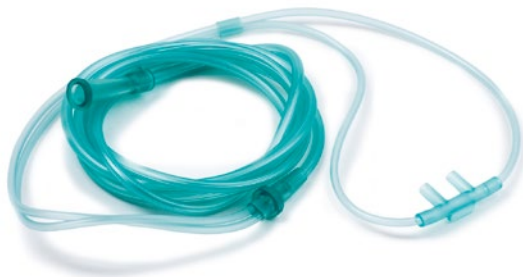
Feeding catheters are intended for the administration of medicine, liquids and/or nutrition (enteral feeding). A feeding catheter is inserted through the nose or mouth via the oesophagus into the stomach using a syringe or tubing. The catheter is made of PVC.

| Reference: | Catheter size | Catheter length [cm] |
|------------|---------------|----------------------|
| KK6F40 | 6F | 40 |
| KK6F100 | | 100 |
| KK7F40 | 7F | 40 |
| KK7F100 | | 100 |
| KK8F40 | 8F | 40 |
| KK8F100 | | 100 |
| KK10F40 | 10F | 40 |
| KK10F100 | | 100 |

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

Easy-to-handle device specifically for intensive care to provide information about the filling status of the venous circulatory system and to obtain diagnostic and therapeutic information.

Reference:

OCZ

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

*** NOTE: product not available from Q4 2022**



ACCESSORIES



TWO-WAY STOPCOCK MANIFOLDS



Clear body provides durability and visibility.

Ergonomic, low-torque handles designed for easy grip and smooth rotation.

Suitable for angiography, angioplasty and during intervention radiology and cardiology procedures.

Reference:

RAM2

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



THREE-WAY STOPCOCK MANIFOLDS



Clear body provides durability and visibility.
Ergonomic, low-torque handles designed for easy grip and smooth rotation.
Suitable for angiography, angioplasty and during intervention radiology and cardiology procedures.

Reference:

RAM3

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



ONE-WAY STOPCOCK HIGH PRESSURE



With easy-to-turn handle.
Suitable for all current pressure infusion systems.

| Reference: | Description |
|------------|---------------|
| K1V20BARS | high pressure |

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



THREE-WAY STOPCOCK HIGH PRESSURE



The three-way stopcock is used to manage the flows of infusion fluids during their administration and to switch the flow path of the infusion. Includes a clear optical identifier for the "open-close" position.

| Reference: | Description |
|------------|---------------|
| K3V20BARS | 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.

*** NOTE: product not available from Q4 2022**



BLOCKING SWITCH



Reference:

BL

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



SCALPEL



The ergonomic design of the handle ensures efficient, safe and precise cutting.
Surgical blade No. 11 made of stainless steel.

Reference:

S

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



| | |
|---|----|
| A | |
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