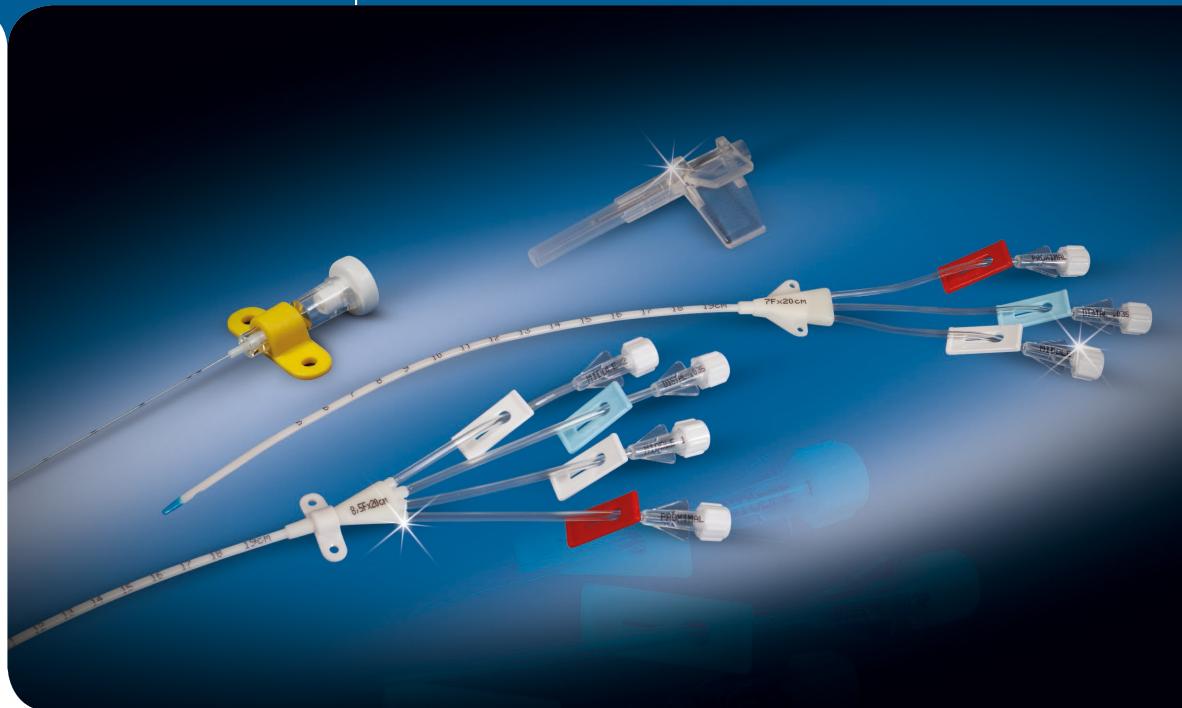


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**Anaesthesiology**

For **over 40 years**, Balton has been combining clinical experience with precision of workmanship of the **disposable medical devices**, empowering healthcare professionals in their every-day work.



The company started operating in **1980** with a narrow product offer and one small production plant near Warsaw, the capital of Poland. Today Balton has much larger and complex production lines in several locations and provides solutions that help to eliminate the need for open surgery in **8** different **categories**. Our products are sold in almost **80 countries on 6 continents**.

Through meticulous attention to **product design**, **usability** aspects and **trainings** we make an effort to deliver equipment tailored to the needs and preferences of the physicians. We invest in the development of our own products and research of cutting-edge solutions in cooperation with leading medical authorities of respective fields in Poland and worldwide. Which is why we are trusted by doctors to whom patients entrust their health and life.



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## EPIDURAL ANAESTHESIA

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## EPIDURAL ANAESTHESIA SET ADVANCED



### Set components:

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

The epidural set allows you to administer anesthetics continuously or repeatedly.

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

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

NOTE: Special order can contain epidural catheter with SOFT tip (comes only with ZZOR18G).

While ordering, add the letter "S" to the reference numer – for example: ZZOR18GS.

Special order can contain system for catheter fixation.

While ordering, add the letters "EM" to the reference numer – for example: ZZOR18GEM.

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



## EPIDURAL ANAESTHESIA SET SMALL



### Set components:

- Tuohy needle
- epidural catheter with hub
- flat epidural filter 0.2  $\mu$ m with self-adhesive element
- sleeve

### Optional component:



system  
for catheter fixation



10 ml low resistance syringe

The epidural set allows you to administer anesthetics continuously or repeatedly.

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

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.

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



## EPIDURAL CATHETER



Reference:	Catheter size [G]
KE18G	18
KE19G	19
KE20G	20
KE22G	22

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

NOTE: Special order can contain epidural catheter with SOFT tip (comes only with KE20G). While ordering, add the letter "S" to the reference numer – for example: KE20GS.

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



## TUOHY NEEDLE



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

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

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



## CENTRAL VENOUS CATHETER KITS

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## CENTRAL VENOUS CATHETER KIT

with single lumen cannula



■ Set components:

- Catheter
- Needle
- Guidewire in dispenser
- Dilator
- Scalpel
- Syringe
- Butterfly with clamp
- Luer lock cap (1 pc)
- Y hub\*

\* optional

### DEVICE DESCRIPTION

The central venous catheter has a non-communicating, single or multi-lumen polyurethane, radiopaque shaft with holes for each lumen near theatraumatic tip and centimeter insertion depth marks. Each lumen branches at the hub into a labeled extension tube for infusion of fluids, equipped with a flow clamp and luer port. Separate lumens allow to infuse and draw different fluids simultaneously.

### INTENDED USE / INDICATIONS

Central Venous Catheter Kit is intended for short-term (up to 30 days):

- infusion of fluids or drugs;
- central venous blood pressure measurements;
- blood sampling;
- parenteral nutrition.

Product risk class according to MDR: III

Reference:	Catheter size [F]	Catheter length [cm]	Dilator size [F]	Dilator length [cm]	Needle size [G]	Needle length [mm]	Guidewire size [inch]	Guidewire length [cm]	Guidewire type
ZKDN2F8	2	8	-	-	22	38	.014	35	straight
ZKDN3F8	3	8	4	10				40	
ZKDN3F10	3	10	4	10				40	
ZKDN3F15	3	15	4	10				50	
ZKDN3F20	3	20	4	10				60	
ZKDN4F10	4	10	5	12				50	
ZKDN4F15	4	15	5	12				50	
ZKDN4F20	4	20	5	12				60	
ZKDN5F10	5	10	6	12				50	
ZKDN5F15	5	15	6	12				50	
ZKDN5F20	5	20	6	12				60	
ZKDN6F15	6	15	7	12				50	
ZKDN6F20	6	20	7	12				60	
ZKDN7F15	7	15	8	12				50	
ZKDN7F20	7	20	8	12				60	
ZKDN7.5F20	7.5	20	8	12				60	
ZKDN8F15	8	15	9	12				50	
ZKDN8F20	8	20	9	12				60	
ZKDN9F20	9	20	10	12				60	
ZKDN10F20	10	20	10	12				60	

When ordering use Ref. Number, e.g.: ZKDN7F20.

NOTE: Optionally you can order set with Y hub. While ordering, add the letter "Y" to the end of reference number e.g.: ZKDN7.5F20Y.

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



## CENTRAL VENOUS CATHETER KIT

with double lumen cannula



### Set components:

- Catheter
- Needle
- Guidewire in dispenser
- Dilator
- Scalpel
- Syringe
- Butterfly with clamp
- Luer lock cap (2 pcs)
- Y hub\*

\* optional

### DEVICE DESCRIPTION

The central venous catheter has a non-communicating, single or multi-lumen polyurethane, radiopaque shaft with holes for each lumen near the atraumatic tip and centimeter insertion depth marks. Each lumen branches at the hub into a labeled extension tube for infusion of fluids, equipped with a flow clamp and luer port. Separate lumens allow to infuse and draw different fluids simultaneously.

### INTENDED USE / INDICATIONS

Central Venous Catheter Kit is intended for short-term (up to 30 days):

- infusion of fluids or drugs;
- central venous blood pressure measurements;
- blood sampling;
- parenteral nutrition.

Product risk class according to MDR: III

Reference:	Catheter size [F]	Catheter length [cm]	Dilator size [F]	Dilator length [cm]	Needle size [G]	Needle length [mm]	Guidewire size [inch]	Guidewire length [cm]	Guidewire type
ZKDND4F10	4	10	5	12				50	
ZKDND4F15	4	15	5	12				50	
ZKDND4F20	4	20	5	12				60	
ZKDND4F30	4	30	5	12				80	
ZKDND5F10	5	10	6	12				50	
ZKDND5F15	5	15	6	12				50	
ZKDND5F20	5	20	6	12				60	
ZKDND6F15	6	15	7	12				50	
ZKDND6F20	6	20	7	12				60	
ZKDND7F15	7	15	8	12				50	
ZKDND7F20	7	20	8	12				60	
ZKDND7.5F20	7.5	20	8	12				60	
ZKDND8F15	8	15	9	12				50	
ZKDND8F20	8	20	9	12				60	
ZKDND9F20	9	20	10	12				60	

When ordering use Ref. Number, e.g.: ZKDND7F20.

NOTE: Optionally you can order set with Y hub. While ordering, add the letter "Y" to the end of reference number e.g.: ZKDND7.5F20Y.

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



## CENTRAL VENOUS CATHETER KIT

with triple lumen cannula



### Set components:

- Catheter
- Needle
- Guidewire in dispenser
- Dilator
- Scalpel
- Syringe
- Butterfly with clamp
- Luer lock cap (3 pcs)
- Y hub\*

\* optional

### DEVICE DESCRIPTION

The central venous catheter has a non-communicating, single or multi-lumen polyurethane, radiopaque shaft with holes for each lumen near theatraumatic tip and centimeter insertion depth marks. Each lumen branches at the hub into a labeled extension tube for infusion of fluids, equipped with a flow clamp and luer port. Separate lumens allow to infuse and draw different fluids simultaneously.

### INTENDED USE / INDICATIONS

Central Venous Catheter Kit is intended for short-term (up to 30 days):

- infusion of fluids or drugs;
- central venous blood pressure measurements;
- blood sampling;
- parenteral nutrition.

Product risk class according to MDR: III

Reference:	Catheter size [F]	Catheter length [cm]	Dilator size [F]	Dilator length [cm]	Needle size [G]	Needle length [mm]	Guidewire size [inch]	Guidewire length [cm]	Guidewire type
ZKDNT5F10	5	10	6	12				50	
ZKDNT5F15	5	15	6	12			.022	50	
ZKDNT5F20	5	20	6	12				60	
ZKDNT6F15	6	15	7	12				50	
ZKDNT6F20	6	20	7	12			.027	60	
ZKDNT7F15	7	15	8	12				50	
ZKDNT7F20	7	20	8	12				60	"J"
ZKDNT7F30	7	30	8	12				80	
ZKDNT7.5F20	7.5	20	8	12			.035	60	
ZKDNT8F15	8	15	9	12				50	
ZKDNT8F20	8	20	9	12				60	
ZKDNT8.5F20	8.5	20	9	12				60	
ZKDNT9F20	9	20	10	12				60	

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

NOTE: Optionally you can order set with Y hub. While ordering, add the letter "Y" to the end of reference number e.g.: ZKDNT7.5F20Y.

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



## CENTRAL VENOUS CATHETER KIT

with quadruple lumen cannula



### DEVICE DESCRIPTION

The central venous catheter has a non-communicating, single or multi-lumen polyurethane, radiopaque shaft with holes for each lumen near the atraumatic tip and centimeter insertion depth marks. Each lumen branches at the hub into a labeled extension tube for infusion of fluids, equipped with a flow clamp and luer port. Separate lumens allow to infuse and draw different fluids simultaneously.

### INTENDED USE / INDICATIONS

Central Venous Catheter Kit is intended for short-term (up to 30 days):

- infusion of fluids or drugs;
- central venous blood pressure measurements;
- blood sampling;
- parenteral nutrition.

Product risk class according to MDR: III

#### Set components:

- Catheter
- Needle
- Guidewire in dispenser
- Dilator
- Scalpel
- Syringe
- Butterfly with clamp
- Luer lock cap (4 pcs)
- Y hub\*

\* optional

Reference:	Catheter size [F]	Catheter length [cm]	Dilator size [F]	Dilator length [cm]	Needle size [G]	Needle length [mm]	Guidewire size [inch]	Guidewire length [cm]	Guidewire type
ZKDNIV7F15	7	15	8	12	18	70	.035	50	"J"
ZKDNIV7F20	7	20	8	12				60	
ZKDNIV8F15	8	15	9	12				50	
ZKDNIV8F20	8	20	9	12				60	
ZKDNIV8.5F15	8.5	15	9	12				50	
ZKDNIV8.5F20	8.5	20	9	12				60	

When ordering use Ref. Number, e.g.: ZKDNIV7F20.

NOTE: Optionally you can order set with Y hub. While ordering, add the letter "Y" to the end of reference number e.g.: ZKDNIV7.5F20Y.

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## SPINAL ANAESTHESIA

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

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

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



## ■ 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 [G]	Spinal needle STANDARD size [G]	Spinal needle STANDARD lenght [mm]	Hub colour
ZIPPS18G	---	18	90	pink
ZIPPS19G	---	19		cream
ZIPPS20G	---	20		yellow
ZIPPS21G	---	21		green
ZIPPS22G	---	22		black
ZIPPS23G	---	23		blue
ZIPPS24G	20	24		blue
ZIPPS25G	20	25		orange
ZIPPS26G		26		brown
ZIPPS27G	22	27	90, 130	grey
ZIPPS29G		29		red

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

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



## ■ SPINAL ANAESTHESIA NEEDLE

### Pencil-Point type

■ Set components:

- guiding needle
- spinal needle, Pencil-Point type



Reference:	Guiding needle size [G]	Spinal needle PENCIL-POINT size [G]	Spinal needle PENCIL-POINT length [mm]	Hub colour
IPPW22G90	---	22	90	black
IPPW24G90	20	24	90	violet
IPPW25G90	20	25	90	orange
IPPW25G120	20	25	120	orange
IPPW26G90	20	26	90	brown
IPPW26G120	20	26	120	brown
IPPW27G90	22	27	90	grey
IPPW27G120	22	27	120	grey

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

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



## SPINAL ANAESTHESIA NEEDLE

Standard (QUINCKE point)



Set components:

- guiding needle
- spinal needle standard (Quincke point)

Reference:	Guiding needle size [G]	Spinal needle STANDARD size [G]	Spinal needle STANDARD lenght [mm]	Hub colour
IPPS18G50	---	18	50	pink
IPPS18G90	---		90	
IPPS19G50	---	19	50	cream
IPPS19G75	---		75	
IPPS19G90	---	20	90	yellow
IPPS20G50	---		50	
IPPS20G75	---	21	75	green
IPPS20G90	---		90	
IPPS21G50	---	22	50	black
IPPS21G90	---		90	
IPPS22G50	---	23	50	blue
IPPS22G75	---		75	
IPPS22G90	---	24	90	violet
IPPS23G90	---		90	
IPPS24G90	---	25	50	orange
IPPS25G50	---		75	
IPPS25G75	---	26	90	brown
IPPS25G90	20		50	
IPPS26G50	---	27	90	grey
IPPS26G90	---		130	
IPPS26G130	---	27	90	red
IPPS27G90	22	27	130	
IPPS27G130	---	29	90	
IPPS29G90	---			

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

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## TWO-WAY STOPCOCK MANIFOLDS



Transparent 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: RAM2.

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## THREE-WAY STOPCOCK MANIFOLDS



Transparent 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: RAM3.

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



## 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: K1V20BARS.

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

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## 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 "on-off" position.

Reference:	Description
K3V20BARS	high pressure

When ordering use Ref. Number: K3V20BARS.

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



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