



Helping all people
live healthy lives

Product Catalogue 2014

Central Eastern Europe

BD Medical
Medical Surgical Systems



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Injection Systems

Hypodermic Needles

BD Microlance™ 3 Needles

Easy penetration, smooth gliding force during insertion/withdraw and reduced cannula friction while sliding through tissue is a result of the following:

- Three bevel precision grinding of needle bevel
- Targeted needle surface polishing process
- Proprietary needle lubrication process

Thin walls:

- Permitting the use of thinner needles with larger lumen thus increasing flow rates during injection and collection

- BD Microlance™ needles can be connected to a luer slip adapter or luer lock connector. Hub and color coding in compliance with ISO standards
- Recommended use: intradermal, subcutaneous, intramuscular, intravenous injections and aspiration
- Sterilization method: ethylene oxide
- Sterile, single use
- CE marked



Gauge Size	Outer diameter (mm)	Length (mm)	Length (inch)	Wall	Bevel	Color Code	Shelf Box / Shipping Case	Reference Number
BD Microlance™ Needles								
16 G	1,6	40	1 1/2"	regular	regular	white	100 / 5000	300637
18 G	1,2	40	1 1/2"	thin	short	pink	100 / 5000	304622
18 G	1,2	50	2"	regular	short	pink	100 / 4000	301900
19 G	1,1	25	1"	thin	regular	ivory	100 / 5000	301700
19 G	1,1	40	1 1/2"	thin	regular	ivory	100 / 5000	301500
19 G	1,1	50	2"	thin	regular	ivory	100 / 4000	301750
20 G	0,9	25	1"	thin	regular	yellow	100 / 5000	304827
20 G	0,9	40	1 1/2"	thin	regular	yellow	100 / 5000	301300
21 G	0,8	16	5/8"	thin	regular	green	100 / 5000	304434
21 G	0,8	25	1"	thin	regular	green	100 / 5000	301156
21 G	0,8	40	1 1/2"	thin	regular	green	100 / 5000	304432
21 G	0,8	50	2"	regular	regular	green	100 / 4000	301155
22 G	0,7	25	1"	thin	regular	black	100 / 5000	304727
22 G	0,7	30	1 1/4"	thin	regular	black	100 / 5000	300900
22 G	0,7	40	1 1/2"	thin	regular	black	100 / 5000	301000
22 G	0,7	50	2"	regular	regular	black	100 / 4000	300094
23 G	0,6	25	1"	thin	regular	blue	100 / 5000	300800
23 G	0,6	30	1 1/4"	thin	regular	blue	100 / 5000	300700
24 G	0,55	25	1"	regular	regular	violet	100 / 5000	304100
25 G	0,5	16	5/8"	regular	regular	orange	100 / 5000	300600
25 G	0,5	25	1"	regular	regular	orange	100 / 5000	300400
26 G	0,45	13	1/2"	regular	regular	brown	100 / 5000	303800
26 G	0,45	10	3/8"	regular	short	brown	100 / 5000	300300
26 G	0,45	16	5/8"	regular	regular	brown	100 / 5000	304300
27 G	0,4	13	1/2"	regular	regular	grey	100 / 5000	300635
27 G	0,4	19	3/4"	regular	regular	grey	100 / 5000	302200
30 G	0,3	13	1/2"	regular	regular	yellow	100 / 5000	304000

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Injection Systems

Percutaneous Injuries

Would you believe over 1 million needlestick injuries (NSIs) occur every year¹?

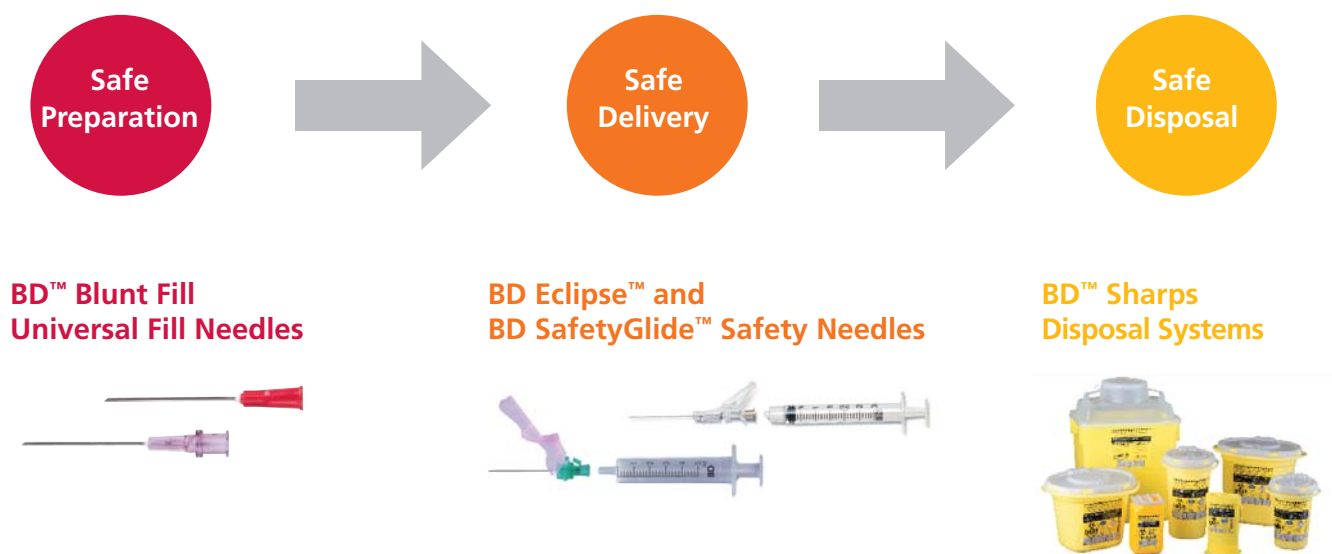
"Injuries caused by needles and other sharp instruments are one of the most common and serious risks to healthcare workers and represent a high cost for health systems and society in general. According to healthcare experts, such injuries occur more than one million times per year, partly causing very serious consequences and sometimes leading to serious diseases."¹ Nurses and doctors are most at risk of needlestick injuries².

Facts:

- Injection and infusion devices cause more than 1/3 of sharps injuries²
- Any sharps injury could be a potential risk no matter the source³
- Not all hazardous exposures to healthcare workers (HCW) are percutaneous injuries²
- Some exposures are to the eye or other mucous membranes²
- A number of NSIs occur after use, during the disposal process and anyone in the hospital environment could be at risk (e.g. cleaning staff)²



A comprehensive safety approach shall have three components:



BD Injection Expertise. Our Experience in your Hands.

¹ EU Council Directive 2010/32/EU, June 11, 2010.

² <http://healthsystem.virginia.edu/internet/safetycenter/>

³ Wittmann, A, Köver, J, Hofmann, F, Kralj, N (2009): Übertragene Blutvolumina nach Nadelstichverletzungen an s.c. Kanülen. Dok.Dt.Ges.Arbmed.Umweltmed. 49. Jahrestagung: 382-84

Injection Systems

Universal Fill Needles

BD™ Blunt Fill Needles

Fill Needle with Blunt Tip

- 45° bevel avoids coring and designed to minimize the risk of needle stick injury
- Red hub and shield for easy identification as fill needle
- Also available with 5 micron filter for effective filtration of glass, metal, rubber and other contaminant particles
- Sterilization method for
 - Ref. no. 305211: ethylene oxide
 - Ref. no. 305180/181: radiation
- Sterile, single use
- CE marked



Gauge Size	Outer diameter (mm)	Length (mm)	Length (inch)	Bevel	Color Code	Shelf Box / Shipping Case	Reference Number
BD™ Blunt Fill Needles							
18 G	1,2	40	1 1/2 "	blunt	red	100 / 1000	305180
18 G	1,2	25	1 "	blunt	red	100 / 1000	305181
BD™ Blunt Fill Needle with 5 Micron Filter							
18 G	1,2	40	1 1/2 "	blunt	lilac	100 / 1000	305211

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Injection Systems

Safety-Engineered Needles and Syringes

BD Eclipse™ Safety Needle with SmartSlip™ Technology

The SmartSlip™ Technology is especially designed for safe assembling of BD™ Eclipse needles to luer syringes.

- Bevel oriented to the safety cover to allow low angle injections
- Activates with one finger stroke - no hard surface required
- Minimal change in technique
- No excess dead space - minimal medication waste

Safety

- By assembling BD™ Eclipse needles to a luer slip syringe, an audible click indicates a safely assembled needle
- Safety activation immediately follows injection

- Wide, textured finger pad for thumb or forefinger
- Single-handed activation of the safety shield, audible click indicates that the cover has safely engaged the needle

Patient Care

- Activation occurs after needle is withdrawn
- BD needle technology is designed for patient comfort
- Sterilization method: ethylene oxide
- Sterile, single use
- Does not contain natural rubber latex
- CE marked



Gauge Size	Outer diameter (mm)	Length (mm)	Length (inch)	Color Code	Shelf Box / Shipping Case	Reference Number
BD Eclipse™ Safety Needles						
30 G	0,3	13	1/2"	yellow	100 / 1200	305771
27 G	0,4	13	1/2"	grey	100 / 1200	305770
27 G	0,4	19	3/4"	grey	100 / 1200	305889
27 G	0,4	40	1 1/2"	grey	100 / 1200	302436
25 G	0,5	16	5/8"	orange	100 / 1200	305760
25 G	0,5	25	1"	orange	100 / 1200	305891
23 G	0,6	25	1"	blue	100 / 1200	305892
23 G	0,6	30	1 1/4"	blue	100 / 1200	305886
22 G	0,7	30	1 1/4"	black	100 / 1200	305887
21 G	0,8	25	1"	green	100 / 1200	305894
21 G	0,8	40	1 1/2"	green	100 / 1200	305895
20 G	0,9	25	1"	yellow	100 / 1200	305899
20 G	0,9	40	1 1/2"	yellow	100 / 1200	305888
18 G	1,2	40	1 1/2"	pink	100 / 1200	302437

Gauge Size	Capacity	Outer diameter (mm)	Length (mm)	Length (inch)	Color Code	Shelf Box	Reference Number
BD Eclipse™ Safety Needles with BD Luer-Lok™ Syringe							
25 G	3 ml	0,5	16	5/8"	orange	50 / 300	305781
23 G	3 ml	0,6	25	1"	blue	50 / 300	305782
22 G	3 ml	0,7	40	1 1/2"	black	50 / 300	305783
21 G	3 ml	0,8	40	1 1/2"	green	50 / 300	305784
22 G	5 ml	0,7	40	1 1/2"	black	50 / 300	305785
22 G	10 ml	0,7	40	1 1/2"	black	50 / 300	305786

Injection Systems

Safety-Engineered Needles and Syringes

BD SafetyGlide™ Safety Needles with Activation-Assist™ Technology

BD SafetyGlide™ Safety Needles with patented Activation-Assist™ Technology help to protect from needle stick injuries through its integrated safety mechanism.

- Low profile safety mechanism remains discretely out of the way before and during injection
- Patented Activation Assist™ technology ensures quick coverage of the needle by a single finger stroke immediately after injection
- Minimal change in technique
- "Bevel up" design eliminates safety-arm interference to facilitate low angle injections

Safety

- Safety activation immediately follows injection

- Needle is safely protected after shielding
- Single-handed activation

Patient Care

- Activation occurs after needle is withdrawn
- BD needle technology is designed for patient comfort
- Sterilization method: radiation
- Single, sterile use
- Does not contain natural rubber latex
- CE marked



Gauge Size	Outer diameter (mm)	Length (mm)	Length (inch)	Color Code	Shelf Box / Shipping Case	Reference Number
BD SafetyGlide™ Safety Needles						
27 G	0,4	16	5/8"	grey	50 / 500	305921
25 G	0,5	16	5/8"	orange	50 / 500	305901
25 G	0,5	25	1"	orange	50 / 500	305916
23 G	0,6	25	1"	blue	50 / 500	305902
22 G	0,7	40	1 1/2"	black	50 / 500	305900
21 G	0,8	25	1"	green	50 / 500	305915
21 G	0,8	40	1 1/2"	green	50 / 500	305917
18 G	1,2	40	1 1/2"	pink	50 / 500	305918

Capacity	Gauge Size	Outer diameter (mm)	Length (mm)	Length (inch)	Color Code	Shelf Box / Shipping Case	Reference Number
BD SafetyGlide™ Safety Needles with BD Luer-Lok™ Syringe							
3 ml	25 G	0,5	16	5/8"	orange	50 / 400	305904
3 ml	23 G	0,6	25	1"	blue	50 / 400	305905
5 ml	22 G	0,7	40	1 1/2"	black	50 / 400	305907

Injection Systems

Safety-Engineered Needles and Syringes

BD SafetyGlide™ Syringes for Tuberculin and Allergy

BD SafetyGlide™ Syringes complement BD's safety injection family with the Tiny Needle Technology (TNT) to the most versatile safe injection technology.

The BD SafetyGlide™ Syringe for tuberculin and allergy is specially designed and scaled to deliver smaller doses of medication. It has an integrated needle and helps to meet the unique needs of the healthcare workers who administer these types of injections.

- Minimal change in technique
- Finger stays behind the needle at all times
- Secure and visible lock
- Rotating safety arm eliminates interference during drawing up and facilitates low angle injections
- Integrated needle means minimal waste space
- 26G and 27G needles perform a variety of subcutaneous and intradermal applications

Safety

- Safety activation immediately follows injection
- Needle is safely protected after shielding
- Single-handed activation

Patient Care

- Activation occurs after needle is withdrawn
- BD needle technology is designed for patient comfort
- Sterilization method: radiation
- Sterile, single use
- Does not contain natural rubber latex
- CE marked



Capacity	Gauge Size	Outer diameter (mm)	Length (mm)	Length (inch)	Color Code	Shelf Box / Shipping Case	Reference Number
BD SafetyGlide™ Syringes with integrated needle							
1 ml	27 G	0,4	13	1/2"	grey	100 / 400	305945
1 ml	26 G	0,45	10	3/8"	brown	100 / 400	305946

Injection Systems

Safety-Engineered Needles and Syringes

BD Integra™ Syringes with Detachable, Retracting Needle

BD Integra™ Syringe with retracting needle combines innovative technology with BD quality and comfort.

- Spring based retracting syringe with detachable needle
- Unique non-luer thread design - BD Tru-Lok™ of the BD Integra™ detachable needle provides:
 - secure connection and
 - is designed to have significantly lower waste space volume as compared to a traditional luer lock syringe and needle. Less waste space can reduce drug wastage
- Activation of retracting needle before or after needle is withdrawn from the patient
- Complete dosing ensured prior to activation
- BD Integra™ Blunt Needle allows change of needle for aspiration and administration
- No change in technique

Safety

- Safety activation immediately follows injection
- Needle is completely retracted into the syringe barrel

Patient Care

- Syringe and needle cannot be reused
- BD PrecisionGlide™* needle technology is designed for patient comfort
- Sterilization method for
 - ref. no. 305833: ethylene oxide
 - all others: radiation
- Sterile, single use
- Does not contain natural rubber latex
- CE marked

* BD PrecisionGlide™ is BD's US brand for hypodermic needles corresponding to the European brand BD Microlance™



Capacity	Gauge Size	Outer diameter (mm)	Length (mm)	Length (inch)	Color Code	Shelf Box / Shipping Case	Reference Number
BD Integra™ Syringe only							
3 ml	–	–	–	–	–	100 / 400	305283
BD Integra™ Retracting Needles							
–	25 G	0,5	16	5/8"	orange	100 / 1000	305310
–	25 G	0,5	25	1"	orange	100 / 1000	305311
–	23 G	0,6	25	1"	blue	100 / 1000	305312
–	22 G	0,7	40	1 1/2"	black	100 / 1000	305313
BD Integra™ Blunt Fill Needle (non-retracting drawing up needle)							
–	18 G	1,2	40	1 1/2"	red	100 / 1000	305275
BD Integra™ Blunt Fill Needle with 5 micron filter (non-retracting drawing up needle)							
–	18 G	1,2	40	1 1/2"	red	50 / 500	305833
BD Integra™ Syringes with pre-attached retracting BD PrecisionGlide™ needle							
3 ml	25 G	0,5	16	5/8"	orange	100 / 400	305269
3 ml	25 G	0,5	25	1"	orange	100 / 400	305270
3 ml	23 G	0,6	25	1"	blue	100 / 400	305271
3 ml	22 G	0,7	40	1 1/2"	black	100 / 400	305272
3 ml	21 G	0,8	25	1"	green	100 / 400	305273
3 ml	21 G	0,8	40	1 1/2"	green	100 / 400	305274

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Injection Systems

Needles and Syringes

BD Emerald™ Syringe For General Purpose Use

Combines High-Quality Performance and Reduced Environmental Impact



A new general purpose syringe inspired by BD's ongoing commitment to global health

Achieving Global Performance Standards

Every second of every day, approximately 220 BD syringes are used worldwide. Based on this global presence, as well as over 100 years of hypodermic innovation, BD has created design and process specifications for the BD Emerald™ Syringe that help ensure it will consistently meet performance standards such as ISO 7886-1 and ISO 594.

BD Emerald™ Syringes must meet over forty specific criteria before they are qualified for use. BD's passion for ongoing improvement continues to raise the bar of product reliability.

Reducing Environmental Impact

Because human health and a healthy environment are inseparable, BD is dedicated to the design, manufacture and distribution of safe, effective medical technology products which help to minimize environmental impact.

The BD Emerald™ product line has been produced in a more sustainable manner, with up to 30% reduction in material.

If half of the world's syringes could be converted to BD Emerald™ syringes, 15,000,000kg of waste could be saved per year. This is the equivalent combined weight of approximately 200,000 people – enough to fill two Olympic stadiums!

Injection Systems

Needles and Syringes

BD Emerald™ Syringes – 3-Piece Syringes, Luer-Slip Tip – 2, 3, 5, 10 ml

BD Emerald™ Syringes for general purpose use. Specialized design features benefit clinicians, patients and the environment.

- Green stopper and bold scale markings to aid in setting an accurate dose
- Clear barrel to allow for visualization of fluid
- Robust retaining ring to help prevent accidental plunger rod pullout
- Flange size and shape to provide stability and comfort during use
- Textured thumb press to reduce slippage during administration
- Meets international standards: ISO 7886-1 and ISO 594 compliant
- Minimizes waste disposal – has up to 30% less material than other syringes*

- Sterilization method: ethylene oxide
- Sterile, single use
- Does not contain natural rubber latex
- CE marked

Each BD Emerald™ Syringe:

- Addresses clinical needs globally
- Meets quality standards throughout the world
- Reduces environmental impact
- PLUS - Offers you BD's full array of world class sharpness needles



* Data on file. Based on comparison with leading syringe brands worldwide.

Capacity	Tip	Scale Graduation	Shelf Box / Shipping Case	Reference Number
BD Emerald™ Syringes with Luer-Slip Tip				
2 ml	concentric	0,1 ml	100 / 3000	307727
3 ml	concentric	0,1 ml	100 / 2400	302986
5 ml	concentric	0,2 ml	100 / 2000	307731
10 ml	concentric	0,2 ml	100 / 1200	307736

Capacity	Gauge Size	Outer diameter (mm)	Length (mm)	Length (inch)	Scale Graduation	Color Code	Shelf Box / Shipping Case	Reference Number
BD Emerald™ Syringes with Luer-Slip Tip and pre-attached Needle								
2 ml	22 G	0,7	30	1 1/4"	0,1 ml	black	100 / 2000	307728
2 ml	23 G	0,6	25	1"	0,1 ml	blue	100 / 2000	307740
2 ml	23 G	0,6	30	1 1/4"	0,1 ml	blue	100 / 2000	307741
5 ml	21 G	0,8	40	1 1/2"	0,2 ml	green	100 / 1500	307732
5 ml	22 G	0,7	30	1 1/4"	0,2 ml	black	100 / 1500	307733
5 ml	23 G	0,6	30	1 1/4"	0,2 ml	blue	100 / 1500	307735
10 ml	21 G	0,8	40	1 1/2"	0,2 ml	green	100 / 900	307737
10 ml	22 G	0,7	30	1 1/4"	0,2 ml	black	100 / 900	307738

Capacity	Gauge Size	Outer diameter (mm)	Length (mm)	Length (inch)	Scale Graduation	Color Code	Shelf Box / Shipping Case	Reference Number
BD Emerald™ Syringes with Luer-Slip Tip and detached Needle								
2 ml	23 G	0,6	25	1"	0,1 ml	blue	100 / 3000	307729
2 ml	23 G	0,6	30	1 1/4"	0,1 ml	blue	100 / 3000	307730
5 ml	22 G	0,7	40	1 1/2"	0,2 ml	black	100 / 2000	307734
5 ml	21 G	0,8	40	1 1/2"	0,2 ml	green	100 / 2000	307742
5 ml	22 G	0,7	30	1 1/4"	0,2 ml	black	100 / 2000	307743
10 ml	21 G	0,8	40	1 1/2"	0,2 ml	green	100 / 1200	307739

Injection Systems

Needles and Syringes

BD Discardit™ II – 2-Piece Syringes, Luer-Slip Tip – 2, 5, 10, 20 ml

- Transparent barrel for good visualization of syringe contents
- Smooth plunger movement - reduced sliding force
- BD Discardit™ syringes are tested during manufacture in compliance with ISO 7886-1 to make them leak-tight
- Accurate graduation suited to user's needs
- With a retaining ring to prevent accidental plunger rod withdrawal
- Design of finger grip flanges ensures stability and comfort during injection
- Ergonomically designed plunger for single-handed operation
- Sterilization method: ethylene oxide
- Sterile, single use
- CE marked



Capacity	Tip	Scale Graduation	Shelf Box / Shipping Case	Reference Number
BD Discardit™ Syringes with Luer-Slip Tip				
2 ml	concentric	0,1 ml	100 / 3000	300928
5 ml	eccentric	0,2 ml	100 / 1800	309050
10 ml	eccentric	0,5 ml	100 / 1200	309110
20 ml	eccentric	1 ml	80 / 960	300296

Capacity	Gauge Size	Outer diameter (mm)	Length (mm)	Length (inch)	Color Code	Shelf Box / Shipping Case	Reference Number
BD Discardit™ Syringes with Luer-Slip Tip and detached BD Microlance™ Needle							
2 ml	21G	0,8	40	1 1/2"	green	100 / 3000	300318
2 ml	22G	0,7	30	1 1/4"	black	100 / 3000	300320
2 ml	22G	0,7	40	1 1/2"	black	100 / 3000	300321
2 ml	23G	0,6	25	1"	blue	100 / 3000	300322
2 ml	23G	0,6	30	1 1/4"	blue	100 / 3000	300323
5 ml	22G	0,7	40	1 1/2"	black	100 / 1800	300506
5 ml	21G	0,8	40	1 1/2"	green	100 / 1800	300512
5 ml	22G	0,7	30	1 1/4"	black	100 / 1800	300513
5 ml	23G	0,6	30	1 1/4"	blue	100 / 1800	300516
10 ml	22G	0,7	30	1 1/4"	black	100 / 1200	300626
10 ml	21G	0,8	40	1 1/2"	green	100 / 1200	301001
10 ml	22G	0,7	40	1 1/2"	black	100 / 1200	301504
20 ml	21G	0,8	40	1 1/2"	green	80 / 960	300330

Injection Systems

Needles and Syringes

Low Dose – 3-Piece Syringes – 1 ml

Low dose syringes make it easier to accurately measure a small dose than with a large capacity syringe. Available with or without needle.

BD Plastipak™

1 ml Syringe with BD Luer-Lok™ Tip

- For high-precision applications in plastic surgery, radiology, neonatology, paediatrics, anaesthesia and pharmacy
- Crystal clear syringe barrel
- Scale graduation 0,01 ml
- Syringe barrel made of polycarbonate, plunger made of polypropylene
- Sterilization method: radiation

BD Plastipak™

1 ml Syringes with attached needle

- Compact “syringe plus needle” unit provides all the benefits of a BD Plastipak™ syringe and a BD Micro-lance™ needle at the same time
- Pre-assembled syringe plus needle in a single pack simplifies injections by

reducing the number of steps and thereby reduces costs

- Sterilization method: ethylene oxide

BD Plastipak™

1 ml Sub-Q and 1 ml Test Syringes with integrated needle

- Scale graduation 0,01 ml
- Without dead space
- Minimizes the formation of air bubbles
- Prevents any risk of detachment of needle
- Ensures administration of full dose
- BD Plastipak™ Sub-Q syringe with a short bevel needle for intradermal injections
- Packed in polybags of 10 syringes each
- Sterilization method: radiation
- Sterile, single use
- Does not contain natural rubber latex
- CE marked



Capacity	Tip	Scale Graduation	Shelf Box / Shipping Case	Reference Number
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BD Plastipak™ Syringes with Luer-Slip Tip

1 ml Tuberculin / Allergy	concentric	0,01 ml	100 / 800	300013
1 ml Insulin Syringe U-40	concentric	U-40	100 / 800	300026
1 ml Insulin Syringe U-100	concentric	U-100	100 / 800	301355

Capacity	Tip	Scale Graduation	Shelf Box / Shipping Case	Reference Number
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BD™ Syringe with BD Luer-Lok™ Tip

1 ml	concentric	0,01 ml	100 / 800	309628
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Capacity	Gauge Size	Outer Diameter(mm)	Length (mm)	Length (inch)	Bevel	Scale Graduation	Shelf Box / Shipping Case	Reference Number
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BD Plastipak™ Syringes with Luer-Slip Tip and attached BD Microlance™ Needle

1 ml	25 G	0,5	16	5/8"	regular	0,01 ml	100 / 800	300014
1 ml	26 G	0,45	10	3/8"	intradermal	0,01 ml	100 / 800	300015
1 ml Insulin Syringe U-40	30 G	0,3	13	1/2"	regular	U-40	100 / 800	300334

Capacity	Gauge Size	Outer Diameter (mm)	Length (mm)	Length (inch)	Bevel	Scale Graduation	Shelf Box / Shipping Case	Reference Number
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BD Plastipak™ 1 ml Sub-Q Syringes and BD Plastipak™ 1 ml Test Syringes with integrated needle packed in polybags of ten syringes each*

1 ml Sub-Q, brown	26 G	0,45	13	1/2"	intradermal	0,01 ml	100 / 500	305501
1 ml Test, grey	27 G	0,4	10	3/8"	regular	0,01 ml	100 / 500	305502

* The interior of each syringe remains sterile until the two caps on the syringe - on the needle and the plunger rod end - are either removed or damaged.

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Injection Systems

Needles and Syringes

BD Plastipak™ Syringes – 3-Piece Syringes, Luer-Slip Tip – 2, 5, 10 ml

- Latex free stopper: eliminates completely the risk of allergic reactions to latex
- Clear barrel for visualization of syringe contents
- Bold scale printing to aid in setting for a more accurate dosage of medication
- Special silicone lubrication ensures that plunger moves smoothly and evenly
- Retaining ring: prevents accidental plunger rod withdrawal
- Sterilization method: ethylene oxide
- Sterile, single use
- Does not contain natural rubber latex
- CE marked
- Not autoclavable



Capacity	Tip	Scale Graduation	Shelf Box / Shipping Case	Reference Number
BD Plastipak™ Syringes with Luer-Slip Tip				
2 / 2,5 ml	concentric	0,1 ml	100 / 800	300185
5 ml	concentric	0,2 ml	100 / 400	302187
10 ml	eccentric	0,5 ml	100 / 400	302188

BD™ Syringes – 3-Piece-Syringes, BD Luer-Lok™ Tip – 3, 5, 10 ml

- Clear barrel for visualization of syringe contents
- Bold scale printing to aid in setting for a more accurate dosage of medication
- Special silicone lubrication ensures that plunger moves smoothly and evenly
- Retaining ring: prevents accidental plunger rod withdrawal
- Leak-tight (locking facility on BD Luer-Lok™ syringes)
- BD Luer-Lok™ needle hub or extension line can be safely locked on the syringe
- Sterilization method: radiation
- Sterile, single use
- Does not contain natural rubber latex
- CE marked
- Not autoclavable

Capacity	Tip	Scale Graduation	Shelf Box / Shipping Case	Reference Number
BD™ Syringes with BD Luer-Lok™ Tip				
3 ml	concentric	0,1 ml	200 / 800	309658
5 ml	concentric	0,2 ml	125 / 500	309649
10 ml	concentric	0,2 ml	100 / 400	300912

Injection Systems

Needles and Syringes

BD Plastipak™ and BD™ Perfusion Syringes – 3-Piece Syringes – 20, 30, 50, 100 ml

- Leak-tight (ensuring a secure connection)
- Gradual and controlled movement of plunger
- Needle hub or extension line can be safely locked on the syringe
- Designed for accuracy and safety of use: transparent body
- Eccentric tip allows for low angle administration and aspiration: reduces dead space when using large capacity syringe
- Catheter tip: permits attachment of a probe or other tubing
- 100 ml syringe: catheter tip with potential to change into luer tip via an adapter
- 50 ml amber coloured syringe for guaranteed protection of photosensitive drugs: stops 90% of light rays at 400 nm UV wave length
- Luer lock syringes are particularly suitable for automatic infusion equipment: syringe-drivers, pumps, etc. They have been approved for use by leading brands of syringe-drivers
- Sterilization method for
 - Ref. no. 305501: ethylene oxide
 - Ref. no. 305502: radiation
- Single, sterile use
- Does not contain natural rubber latex
- CE marked
- Not autoclavable



Description	Tip	Gauge Size	Length (mm)	Length (inch)	Scale Graduation	Shelf Box / Shipping Case	Reference Number
BD Plastipak™ Syringes with Luer-Slip Tip							
20 ml	eccentric				1 ml	120 / 480	300613
20 ml with detached needle	eccentric	21 G	40	1 1/2"	1 ml	60 / 240	301190
30 ml	eccentric				1 ml	60 / 240	301231
50 ml	eccentric				1 ml	60 / 240	300866

Description	Tip	Gauge Size	Length (mm)	Length (inch)	Scale Graduation	Shelf Box / Shipping Case	Reference Number
BD Plastipak™ Syringes with BD™ Luer-Lok Tip							
20 ml	concentric				1 ml	120 / 480	300629
30 ml	concentric				1 ml	60 / 240	301229
50 ml	concentric				1 ml	60 / 240	300865
50 ml, amber	concentric				1 ml	60 / 240	300869

Description	Tip	Gauge Size	Length (mm)	Length (inch)	Scale Graduation	Shelf Box / Shipping Case	Reference Number
BD Plastipak™ Syringes with Catheter Tip							
50 ml	concentric				1 ml	60 / 240	300867
100 ml with luer slip adapter	concentric				2 ml	25 / 50	300605

Description	Tip	Gauge Size	Length (mm)	Length (inch)	Scale Graduation	Shelf Box / Shipping Case	Reference Number
BD™ Perfusion Syringes with BD™ Luer-Lok Tip							
50 ml	concentric				1 ml	50 / 100	300137
50 ml with attached needle	concentric	14 G	30	1 1/4"	1 ml	50 / 100	300136
50 ml, amber	concentric				1 ml	50 / 100	300139
50 ml, amber, with attached needle	concentric	14 G	30	1 1/4"	1 ml	50 / 100	300138

Injection Systems

Oral Dispensing Syringes

BD™ Oral Syringes – 1, 3, 5, 10 ml

BD™ Oral Syringes with an oversized (non-luer) tip to prevent connection to IV access lines and mounting of hypodermic needles, thus reducing the risk of parenteral administration of oral medications.

- Amber colored syringe protects light sensitive drugs
- BD™ Oral syringes are supplied with leak-tight cap to prevent loss of the medication contained in the syringe after preparation

Recommended use

- Specially designed for oral administration of drugs or fluids in drinkable form
- BD™ Oral syringes provide the essential safety needed for the central preparation of unit doses
- Paediatric and geriatric departments
- Non-sterile, single use
- Packed in polybags with 100 syringes each
- CE marked



Capacity	Scale Graduation	Polybag / Shipping Case	Reference Number
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BD™ Oral Syringes with Tip Cap

1 ml	0,02 ml	100 / 500	305217
3 ml	0,1 ml	100 / 500	305220
5 ml	0,2 ml	100 / 500	305218
10 ml	0,2 ml	100 / 500	305219

BD™ Oral Syringes, amber, with Tip Cap

1 ml, amber	0,02 ml	100 / 500	305207
3 ml, amber	0,1 ml	100 / 500	305210
5 ml, amber	0,2 ml	100 / 500	305208
10 ml, amber	0,2 ml	100 / 500	305209

Infusion Therapy

Extension Tubes

BD Connecta™ Extension Tubes for Use with Syringe Pumps

- For use with syringe pumps
- Tube material: Phthalate (DEHP)-free PVC, transparent
- With BD Luer-Lok™ tip male / female
- Pressure resistant up to 2,0 bar
- Sterilization method: ethylene oxide
- Sterile, single use
- CE marked



Material	Priming Volume (ml)	Length (cm)	Outer Diameter (mm)	Inner Diameter (mm)	Shelf Box / Shipping Case	Reference Number
BD Connecta™ Extension Tubes						
PVC	0,3	30	2,45	1,15	100 / 100	397994
PVC	1,55	150	2,45	1,15	100 / 100	397608
PVC	2,1	200	2,45	1,15	50 / 50	397610
BD Connecta™ Coex Extension Tube						
PE/PVC	1,55	150	2,45	1,15	100 / 100	397611

BD Connecta™ Extension Tubes for Infusion

- Tube material: Phthalate (DEHP)-free PVC, transparent
- Pressure resistant up to 2,0 bar
- Sterilization method: ethylene oxide
- Sterile, single use
- CE marked



Priming Volume (ml)	Length (cm)	Outer Diameter (mm)	Inner Diameter (mm)	Shelf Box / Shipping Case	Reference Number
BD Connecta™ Extension Tubes for Infusion					
1,75	25	3,5	3,0	50 / 50	397251
3,50	50	3,5	3,0	50 / 50	397509
5,30	75	3,5	3,0	50 / 50	397997
7,00	100	3,5	3,0	50 / 50	397590
10,50	150	3,5	3,0	50 / 50	397400

Infusion Therapy

Infusion Sets

BD™ Infusion Sets – Overview

BD™ Infusion Sets offer a maximum of safety and user comfort

- R 87 Infusion Sets help to manage risks within IV therapy, due to the lockable ventilation and precision roller clamp
- The 15 µm liquid filter in the drip chamber and the BD Luer-Lok™ connector provide additional patient safety
- R 87 Infusion Sets with one-way-valve offer an effective protection for parallel infusions
- R 87 P Flexinert™ Infusion Set is a PVC-free alternative
- R 87 V Infusion Sets with automatic ventilation offer additional safety when there is risk for moistening the filter resulting in a halted infusion. This is prevented by an integrated back flow valve in front of the bacterial tight filter in the air channel.
- In addition BD offers also customized solutions
- Sterilization method: ethylene oxide
- Sterile, single use
- CE marked



Description	Tube Length (cm)	Material	G	P	BD Luer-Lok™ Tip	Automatic Ventilation in Drip Chamber	One-Way-Valve	Shelf Box / Shipping Case	Reference Number
BD™ Infusion Sets – Overview									
R 87 G with precision roller clamp	180	PVC	✓	–	✓	✓	–	100 / 100	396361
R 87 G with precision roller clamp	180	PVC	✓	–	✓	✓ lockable	–	100 / 100	396392
R 87 G with precision roller clamp	180	PVC	✓	–	✓	✓	✓	100 / 100	396370
R 87 P	150	PVC	✓	✓	✓	–	–	100 / 100	396351
R 87 P	150	PVC	✓	✓	✓	–	✓	100 / 100	396359
R 87 P	180	PVC	✓	✓	✓	–	–	100 / 100	396350
R 87 P	180	PVC	✓	✓	✓	–	✓	100 / 100	396353
R 87 P	220	PVC	✓	✓	✓	–	–	100 / 100	396390
R 87 P with integr. 3-way stopcock and 10 cm tube	180	PVC	✓	✓	✓	–	–	80 / 80	396354
R 87 P with integr. 3-way stopcock and 7 cm tube	180	PVC	✓	✓	✓	–	–	80 / 80	396357
R 87 P Flexinert™	180	PVC free	✓	✓	✓	–	–	100 / 100	396352
R 87 V	150	PVC	✓	✓	✓	✓	–	100 / 100	396368
R 87 V	180	PVC	✓	✓	✓	✓	–	100 / 100	396363
R 87 V	180	PVC	✓	✓	✓	✓	✓	100 / 100	396373
R 87 V	180	PVC	✓	✓	✓	✓ lockable	–	100 / 100	396371
R 87 V	180	PVC	✓	✓	✓	✓ lockable	✓	100 / 100	396377

G = Gravity, P = Pressure

Infusion Therapy

Closed Systems - Needleless IV Access

BD Q-Syte™ Luer Access Split Septum

BD Q-Syte™ Luer Access Split Septum is a needleless IV access device which is uniquely split. Split-septum features such as a simple internal design, ease of use and a straight, clear fluid path are critical to achieve catheter-related bloodstream infection (CRBSI) reductions.

BD extended the benefits of a split septum to the convenience of luer access with a BD Q-Syte™ Luer Access Split Septum. In addition to the benefits of a split septum design, the BD Q-Syte™ device delivers optimal luer access performance.

Because of its straight and unobstructed fluid path, the BD Q-Syte™ device provides dramatically higher flow rates¹, a low priming volume and the flexibility to use ISO 594 compatible Luer-Slip or Luer Lock connections

Features of BD Q-Syte™ Luer Access Split Septum

- Smooth silicone surface
 - swabable, easily disinfected
 - no interstitial space
 - may help to achieve appropriate disinfection

- Split Septum
 - Luer activated closed system
 - helps prevent micro-organism ingress
- Lipid compatibility
 - suitable for parenteral nutrition
- Luer lock and luer slip compatibility
- Straight large fluid path
 - allows high flow rates (> 500 ml/min)
- Clear housing
 - complete internal visibility
 - helps to assure flush efficiency
- Compact light device
 - may help to increase patient comfort due to the smaller and lighter design
- Sterilization method: ethylene oxide
- Sterile, single use
- CE marked

1 data on file



Description	Number of BD Q-Syte™	Flow Rate HzO (l/hr)	Priming Volume (ml)	Shelf Box / Shipping Case	Reference Number
BD Q-Syte™ Luer Access Split Septum					
BD Q-Syte™ Stand-alone device	–	32	0,16	50 / 200	385100
BD Q-Syte™ Extension Sets					
BD Q-Syte™ 15 cm (6 in.) Standard Bore, fixed nut	1	27	1,14	25 / 200	385101
BD Q-Syte™ 15 cm (6 in.) Small Bore, fixed nut	1	3	0,34	50 / 200	385102*
Acacia Inc.** Specialty Extension Sets with BD Q-Syte™ Luer Access Split Septum					
15 cm (6 in.) Macro Bore Bi-Extension Set, spin nut	2	20	1,60	50 / 50	385161
15 cm (6 in.) Macro Bore Tri-Extension Set, spin nut	3	20	2,25	50 / 50	385162
15 cm (6 in.) Small Bore Bi-Extension Set, spin nut	2	2	0,45	50 / 50	385163
15 cm (6 in.) Small Bore Tri-Extension Set, spin nut	3	2	0,80	50 / 50	385164

* contains DEHP

** Acacia Inc. product featuring the BD Q-Syte™ Luer Access Split-Septum are exclusively distributed by BD Medical. Acacia Inc., Brea, CA. 92921 www.acaciainc.com

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Infusion Therapy

Closed Systems - Needleless IV Access

BD Q-Syte™ Luer Access Split Septum

Closed System

- Use on ISO standard IV medical devices
- Use with intermittent or continuous infusion
- Connection and disconnection of syringes and IV sets
- Blood withdrawal
- Use on arterial lines

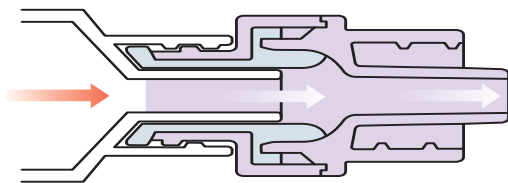


Description	Number of BD Q-Syte™	Priming Volume (ml)	Shelf Box / Shipping Case	Reference Number
BD Connecta™ 3-way stopcock with BD Q-Syte™				
BD Connecta™ 3-way stopcock with BD Q-Syte™	1	0,31	50 / 500	394501
BD Q-Syte™ Accessory				
BD Q-Syte™ Vial Access Adapter	–	0,16	25 / 100	385108

A split septum needleless access system has 64% - 70% lower CRBSI rates than mechanical valves.^{2,3}

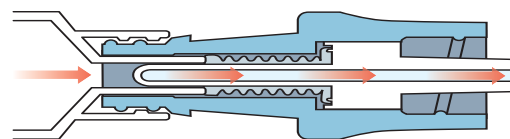
Based on peer-reviewed evidence, the CDC¹ has revised the Guidelines for the Prevention of Intravascular catheter-related bloodstream infections to include a recommendation on the preferred type of needleless connector used.

While many needleless connectors may claim to be a split septum, the split septum devices described in the evidence cited by the CDC were BD Q-Syte™ Luer Access Split Septum and Interlink®*.



BD Q-Syte™ Luer Access Split Septum

- no internal components or mechanisms
- straight fluid path
- smooth connection surface with clear external housing



Mechanical valve needleless connector

- indirect fluid path
- irregular gaps
- complex internal components
- internal fluid reservoirs

1 DC Guidelines May 2011

2 Rupp ME, Sholtz LA, Jourdan DR et al. (2007): Outbreak of bloodstream infection temporally associated with the use of an intravascular needleless valve. Clin Infect Dis. 44(11):1408-14.

3 Salgado CD, Chinnes L, Paczesny TH, Cantey JR (2007): Increased rate of catheter-related bloodstream infection associated with use of a needleless

mechanical valve device at a long-term acute care hospital. Infect Control Hosp Epidemiol. 28(6):684-8.

* Interlink is a trademark of Baxter International.

Infusion Therapy

Stopcocks for IV Therapy and Pressure Monitoring

BD Connecta™ 3-Way Stopcocks

BD Connecta™ is the result of BD's continuous search for improvement and commitment to risk management in IV therapy.

BD Connecta™ 3-Way Stopcocks offer the possibility to feel whether the stopcock is completely open or closed through the on/off snaps.

The new grade of polycarbonate and high standard moulding technique contribute to improved resistance to cracking.

- Flat clean surface
- Low priming volume (dead space)
- Straight two-way fluid path
- Material allows for use of lipids and chemotherapeutic agents
- Sterilization method: radiation
- Sterile, single use
- CE marked



Description	Extension Tubing Length (cm)	Priming Volume (ml)	Shelf Box / Shipping Case	Reference Number
BD Connecta™ 3-Way Stopcocks				
White (without color coding pegs)	–	0,22	100 / 500	394600
White (with color coding pegs red and blue)	–	0,22	100 / 500	394601
Blue	–	0,22	100 / 500	394602
Red	–	0,22	100 / 500	394605
BD Connecta™ 3-Way Stopcocks with Extension Tube				
White	10	0,80	50 / 250	394995
Blue	10	0,80	50 / 250	394997
White	25	1,50	20 / 100	394926
White	50	2,80	20 / 100	394951
White	100	5,50	20 / 100	394961
BD Connecta™ 3-Way Stopcocks with Extension Tube and Valve				
White	7	0,80	50 / 250	394945
White	25	1,50	20 / 100	394936
White	100	5,50	20 / 100	394971
BD Connecta™ 3-Way Stopcock with Low Volume Extension Tube				
White	15	0,30	50 / 250	394982
White	30	0,45	50 / 250	394983

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Infusion Therapy

Infusion Accessories

BD FloPro™ Transfer Needle

- The BD FloPro™ Transfer needle allows convenient, economic and safe mixing of pharmaceuticals prior to administration.
- The two spikes are siliconized for easier penetration.
- Sterilization method: ethylene oxide
- Sterile, single use



Description	Shelf Box / Shipping Case	Reference Number
BD FloPro™ Transfer Needle	100 / 100	397015

Caps and Plugs

- Latex free caps for ease of application
- Designed to minimize touch-contamination risk
- Tray packaging reduces waste compared to single-sterile caps
- For Luer Lock and Luer Slip connections
- Sterilization method: ethylene oxide
- Sterile, single use
- CE marked



Description	Connection	Color	Shelf Box / Shipping Case	Reference Number
Caps and Plugs				
BD Luer-Lok™ Plug (tray of 4)	male	white	200 / 2000	394080
Combi Plugs	male / female	orange	100 / 5000	394075
Rubber Membrane Luer Lock Plug	male	yellow	100 / 5000	394074
Protection Cap for Luer Slip Syringes	male / female	yellow	100 / 5000	394090
BD™ Luer Tip Caps (tray of 10)	female	black	200 / 2000	302834

Infusion Therapy

One-Way Valve

BD™ One-Way Valve

When more than one IV line is connected to a single access point, back tracking of fluids can occur if one line has no flow or a slower flow of fluid running through it.

The fluid will back track as it will take the path of least resistance.

- The BD™ One-Way Luer Lock Valve is a mechanical device which allows fluid to flow through IV infusion lines in one direction only

- Sterilization method: ethylene oxide
- Sterile, single use
- CE marked



Description	Shelf Box / Shipping Case	Reference Number
BD™ One-Way Valve	200 / 200	397019

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Peripheral Vascular Access Systems

Closed IV Catheter Systems

BD Nexiva™ Closed IV Catheter System

BD Nexiva™ Closed IV Catheter System is a pre-assembled configuration which combines separate IV components into a single device.

It promotes greater efficiency and convenience with less handling time, and reduces the potential for blood leakage, helping to minimize clean-up.

Pre-attached extension tubing and soft wings reduce manipulation at the insertion site to help decrease the risk of mechanical phlebitis and irritation to the vein.

Improved first-stick success

With its compact size and shape, the BD Nexiva™ Closed IV Catheter System accommodates your preferred insertion technique. BD Instaflash™ Needle Technology provides immediate visual confirmation of vessel entry along the cannula. These features increase the potential for a successful insertion.

High Pressure Extension Set

The pre-attached high pressure extension set is compatible with power injectors used with contrast-enhanced CT scans*.

This preassembled system is designed to withstand pressures of up to a maximum of 300 PSI.

BD Q-Syte™ Luer Access Split Septum

A split septum needleless access system has 64 % -70 % lower CRBSI rates than mechanical valves^{1,2}

Patients are three times more likely, on average, to develop a CRBSI with the use of a mechanical valve versus a split septum needleless access system.^{1,2}

Built in Stabilisation Platform

The built-in stabilisation platform is soft and flexible, and is designed to help minimise cannula movement in the vessel which may increase cannula dwell time.



- Sterilization method: ethylene oxide
- Sterile, single use
- CE marked
- Manufactured in BD Vialon™, a unique polyurethane, radiopaque biocompatible catheter material (please see page 40 for further information)

BD Instaflash™ Technology - Designed to increase first-stick success

A successful first-stick is important for both the user and the patient, especially when accessing small and compromised veins. BD Instaflash™ needle technology is designed to reduce hit-and-miss insertion by immediately confirming vessel entry through a unique notch in the needle shaft.

Additional assurance of vessel entry is provided through continuous flashback and clear visibility of blood flow along the extension tubing.

Passive needle protection device reduces the potential for needlestick injuries. The needle tip is automatically shielded when

withdrawn from the cannula to ensure compliance. The shield remains in place and cannot be bypassed.

Closed fluid flow path reduces the potential for blood leakage, thereby reducing clinicians' exposure to bloodborne pathogens.



BD Instaflash™ Technology. Designed to reduce hit-and-miss insertion.



* 24 gauge catheter system should not be used with power injectors

1 Rupp ME, Sholtz LA, Jourdan DR et al. (2007): Outbreak of bloodstream infection temporally associated with the use of an intravascular needleless valve. Clin Infect Dis. 44(11):1408-14.

2 Salgado CD, Chinnes L, Paczesny TH, Cantey JR (2007): Increased rate of catheter-related bloodstream infection associated with use of a needleless mechanical valve device at a long-term acute care hospital. Infect Control Hosp Epidemiol. 28(6):684-8.

Peripheral Vascular Access Systems

Closed IV Catheter Systems

BD Nexiva™ Closed IV Catheter System

Gauge Size	Outer diameter (mm)	Catheter Length (mm)	Flow Rate H ₂ O (ml/min)	Priming Volume (ml)	Color Code	Shelf Box / Shipping Case	Reference Number
BD Nexiva™ Dual Port "Y" with one BD Q-Syte™ Luer Access System							
24 G	0,7	14	19	0,4	yellow	20 / 80	383640
24 G	0,7	19	18	0,4	yellow	20 / 80	383641
22 G	0,9	25	33	0,4	blue	20 / 80	383642
20 G	1,1	25	61	0,5	pink	20 / 80	383646
20 G	1,1	32	58	0,5	pink	20 / 80	383647
20 G	1,1	45	51	0,5	pink	20 / 80	383648
18 G	1,3	32	84	0,5	green	20 / 80	383649
18 G	1,3	45	79	0,6	green	20 / 80	383650
BD Nexiva™ Dual Port "Y" with two BD Q-Syte™ Luer Access Systems							
24 G	0,7	14	19	0,4	yellow	20 / 80	383530
24 G	0,7	19	18	0,4	yellow	20 / 80	383531
22 G	0,9	25	33	0,4	blue	20 / 80	383532
20 G	1,1	25	61	0,5	pink	20 / 80	383536
20 G	1,1	32	58	0,5	pink	20 / 80	383537
18 G	1,3	32	84	0,5	green	20 / 80	383539
18 G	1,3	45	79	0,6	green	20 / 80	383540
BD Nexiva™ with BD Connecta™ Stopcock							
24 G	0,7	19	18	0,6	yellow	20 / 80	383681
22 G	0,9	25	33	0,6	blue	20 / 80	383682
20 G	1,1	25	61	0,8	pink	20 / 80	383686
20 G	1,1	32	58	0,8	pink	20 / 80	383687
18 G	1,3	32	84	0,8	green	20 / 80	383689
BD Nexiva™ with BD Connecta™ Stopcock and BD Q-Syte™ Luer Access System							
24 G	0,7	14	19	0,6	yellow	20 / 80	383660
24 G	0,7	19	18	0,6	yellow	20 / 80	383661
22 G	0,9	25	33	0,6	blue	20 / 80	383662
20 G	1,1	25	61	0,8	pink	20 / 80	383666
20 G	1,1	32	58	0,8	pink	20 / 80	383667
20 G	1,1	45	51	0,8	pink	20 / 80	383668
18 G	1,3	32	84	0,8	green	20 / 80	383669
18 G	1,3	45	79	0,8	green	20 / 80	383670

Peripheral Vascular Access Systems

Closed IV Catheter Systems

BD Nexiva™ Diffusics™ Closed IV Catheter System Radiographic Power Injection

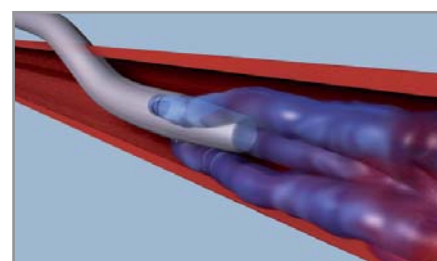
BD Nexiva™ Diffusics™ is an innovative addition to the already proven and effective IV catheter system, BD Nexiva™. It is a pre-assembled closed IV catheter system which minimizes blood exposure, improves catheter stabilization, enhances insertion success with BD Instaflash™ needle technology whilst being specifically designed for radiology needs.

BD Nexiva™ Diffusics™ was specifically engineered to deliver on today's power injection and infusion therapy needs. It is built to allow clinicians easy IV access and to deliver the desired injection protocol flow rates in diagnostic imaging.

BD Nexiva™ Diffusics™ has three laser-cut teardrop shaped holes located in the catheter tip to maximize the diffusion of contrast into the vein. The BD Diffuser tip acts to reduce the intensity of flow exiting the catheter tip, which may decrease stress on the vein wall.

This all-in-one BD IV access system includes the IV catheter, extension set and stabilization platform. It is compatible with power injector's 325 psi setting and can meet all high flow rate injection protocols.

- Now even smaller IV catheters gauge sizes (22 and 24G) can meet the needs of faster protocols
- Reduces the forces that can cause catheter motion in the vein¹
- Significantly less impact to the vein during power injection²
- Helps protect clinicians from blood exposure during IV cannulation
- Sterilization method: ethylene oxide
- Sterile, single use
- CE marked



Increased diffusion of contrast due to teardrop shaped holes in the catheter tip



BD Instaflash™ Technology. Designed to reduce hit-and-miss insertion.



Scan this code with your phone or tablet
www.bd.com/diffusics



Gauge Size	Extension Tube I.D. (mm)	Catheter Length (mm)	max. CT Flow Rate (ml/sec)*	Gravity Flow Rate (ml/h)	Color Code	Shelf Box / Shipping Case	Reference Number
BD Nexiva™ Diffusics™ Closed IV Catheter System for Radiographic Power Injection							
24 G	1,22	19	3.0	1235	yellow	20 / 80	383691
22 G	1,65	25	6.5	2690	blue	20 / 80	383692
20 G	1,65	25	10.0	4050	pink	20 / 80	383693
20 G	1,65	32	10.0	3850	pink	20 / 80	383694
18 G	1,65	32	15.0	5400	green	20 / 80	383695

* see instructions for use for all power injection guidelines, cautions and warnings

1 An in-vitro study measuring IV catheter recoil forces during power injection of iodinated contrast media. 2011 BD ITS0164-1B (11/11).
2 An in-vitro assessment of diffuser efficiency during power injection of iodinated contrast media using the BD Nexiva™ Diffusics™ Closed IV Catheter System. 2011 BD ITS0165-1B (11/11).

Peripheral Vascular Access Systems

Indwelling Cannulae

BD Venflon™ Pro Safety Peripheral Safety IV Catheters with Injection Valve

BD Venflon™ Pro Safety needle protected IV Cannula combines all the advantages of the original BD Venflon™ Pro, with second generation safety protection features against needlestick injuries.

- Familiar ported design with 'snap-cap' aids non-touch technique which helps prevent port being inadvertently left open
- Sharp needle technology provides both ease of penetration and improved patient comfort
- Flexible wings stabilize the cannula in the vein and provide comfortable securement for the patient
- BD Venflon™ Pro Safety is designed for use in all departments and provides a full range of features to suit most clinical indications
- Grip is ergonomically designed to allow for a variety of user techniques and to aid insertion

- Needle shield
 - once activated, the needle tip is fully encapsulated inside the protection mechanism, which is designed to minimise the risk of scratching yourself
 - the unique design captures residual blood safely within the device and minimizes the risk of unanticipated blood splatter during and after activation
 - with needle safely encased in smooth edged plastic shield
- Sterilization method: radiation
- Sterile, single use
- CE marked
- Manufactured in BD Vialon™, a unique polyurethane, radiopaque biocompatible catheter material (please see page 40 for further information)



reddot design award
best of the best 2008

Gauge Size	Outer diameter (mm)	Catheter Length (mm)	Flow Rate (ml/min)	Color Code	Shelf Box / Shipping Case	Reference Number
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BD Venflon™ Pro Safety Peripheral Safety IV Catheters with Injection Valve

22 G	0,9	25	42	blue	50 / 500	393222
20 G	1,1	32	67	pink	50 / 500	393224
18 G	1,3	32	103	green	50 / 500	393226
18 G	1,3	45	103	green	50 / 500	393227
17 G	1,5	45	133	white	50 / 500	393228
16 G	1,8	45	236	grey	50 / 500	393229
14 G	2,0	45	270	orange	50 / 500	393230

Peripheral Vascular Access Systems

Indwelling Cannulae

BD Insyte™ Autoguard™ and BD Insyte-N™ Autoguard™ Peripheral Safety IV Catheters

BD Insyte™ Autoguard™

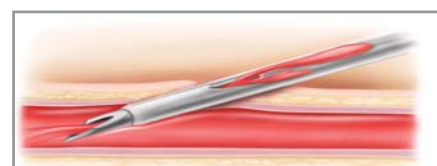
BD knows the importance to both clinician and patient of achieving first-stick success which is why we developed the BD Insyte™ Autoguard™ shielded IV catheter.

BD Insyte™ Autoguard™ shielded IV catheters are designed to give you the satisfaction that comes from getting a successful first stick.

- Patented safety mechanism activation
- The push-button holds the needle unit in the extended position until the user activates the mechanism
- Pressing the push-button releases the spring so that the needle/flashback chamber retracts into the safety barrel
- Luer Lock compatible

BD Insyte-N™ Autoguard™

- 14 mm long, the shortest on the market to accommodate small vein segments and provide a greater choice of insertion sites
- 24 G for catheterisation in every situation encountered in neonatology, paediatrics, oncology and elderly patients
- Shorter length provides increased flow rates
- Available with or without wings
- Recommended use:
 - fragile veins, e.g. neonatology
 - low venous pressure
- Sterilization method: ethylene oxide
- Sterile, single use
- CE marked



BD Instaflash™ Technology. Designed to reduce hit-and-miss insertion.

Gauge Size	Outer diameter (mm)	Catheter Length (mm)	Flow Rate (ml/min)	Color Code	Shelf Box / Shipping Case	Reference Number
BD Insyte-N™ Autoguard™ winged						
24 G*	0,7	14	20	yellow	50 / 200	381911
BD Insyte™ Autoguard™ winged						
24 G*	0,7	19	20	yellow	50 / 200	381912
22 G*	0,9	25	35	blue	50 / 200	381923
20 G*	1,1	25	65	pink	50 / 200	381933
20 G*	1,1	30	60	pink	50 / 200	381934
20 G*	1,1	48	55	pink	50 / 200	381937
18 G	1,3	30	105	green	50 / 200	381944
18 G	1,3	48	95	green	50 / 200	381947
16 G	1,7	30	220	grey	50 / 200	381954
16 G	1,7	45	205	grey	50 / 200	381957
BD Insyte-N™ Autoguard™ without wings						
24 G*	0,7	14	20	yellow	50 / 200	381811
BD Insyte™ Autoguard™ without wings						
24 G*	0,7	19	20	yellow	50 / 200	381812
22 G*	0,9	25	35	blue	50 / 200	381823
20 G*	1,1	25	65	pink	50 / 200	381833
20 G*	1,1	30	60	pink	50 / 200	381834
20 G*	1,1	48	55	pink	50 / 200	381837
18 G	1,3	30	105	green	50 / 200	381844
18 G	1,3	48	95	green	50 / 200	381847
16 G	1,7	30	220	grey	50 / 200	381854
16 G	1,7	45	205	grey	50 / 200	381857
14 G	2,1	45	330	orange	50 / 200	381867

* with BD Instaflash™ Technology

Peripheral Vascular Access Systems

Indwelling Cannulae

BD Insyte™ Autoguard™ BC with Blood Control Technology

BD Insyte™ Autoguard™ BC is proven to reduce the risk of blood exposure by 95 %.¹

Reduce cross contamination risks

- Because there is dramatically less blood leakage, BD Insyte™ Autoguard™ BC can mean less potential cross contamination
- No spills mean there is no blood to get on gloves, clothing, shoes, bedding, floor or equipment

¹ Data on file

² Mendelson MH, Lin-Chen BY, Finkelstein-Blond L, Bailey E, Kogan G. Evaluation of a safety IV catheter (IVC) (Becton Dickinson, Insyte Autoguard): final report [abstract]. Eleventh Annual Scientific Meeting Society for Healthcare Epidemiology of America. 2001.

³ Bausone-Gazda D, Lefaiver C, Walters S. A randomized controlled trial to compare the complications of 2 peripheral intravenous catheter-stabilization systems. *J Infus Nurs.* 2010;33(6):371-384.

⁴ Maki DG, Ringer M. Risk factors for infusion-related phlebitis with small peripheral venous catheters. *Annals of Internal Medicine.* 1991;114:845-854.

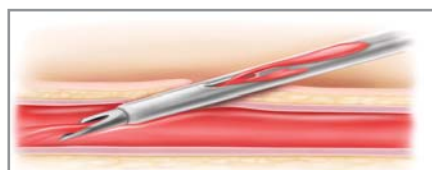
⁵ Gaukroger PB, Roberts JG, Manners TA. Infusion thrombophlebitis: a prospective comparison of 645 Vialon and Teflon cannulae in anaesthetic and postoperative use. *Anaesthesia and Intensive Care.* 1998;16:265-271.

⁶ Stanley MD, Meister E, Fuschuber K. Infiltration during intravenous therapy in neonates: comparison of Teflon® and Vialon® catheters. *Southern Medical Journal.* 1992;85:883-886.

⁷ McKee JM, Shell JA, Warren TA, Campbell VP. Complications of intravenous therapy: a randomized prospective study — Vialon vs. Teflon. *J Infus Nurs.* 1989;12:288-295.

Safe and clinically proven

- New blood-control technology proven to reduce the risk of blood exposure by 95 %¹
- Push-button shielding technology proven to reduce needlestick injuries by 95 %²
- Greater first-stick success for difficult or compromised veins³
- Sterilization method: ethylene oxide
- Sterile, single use
- CE marked
- BD Vialon™ Biomaterial softens up to 70 % in the vessel, resulting in longer dwell times. Reduces the chance of mechanical phlebitis by up to 50 %.^{4, 5, 6, 7}



BD Instaflash™ Technology. Designed to reduce hit-and-miss insertion.



BD Blood Control Technology – stops blood so it does not escape the hub after insertion

Gauge Size	Outer diameter (mm)	Inner Diameter (mm)	Catheter Length (mm)	Flow Rate (ml/min)	Color Code	Shelf Box / Shipping Case	Reference Number
BD Insyte™ Autoguard™ BC winged							
24 G*	0,66 - 0,74	0,48 - 0,56	19	20	yellow	50 / 200	382912
22 G*	0,84 - 0,91	0,61 - 0,69	25	37	blue	50 / 200	382923
20 G*	1,04 - 1,12	0,76 - 0,84	25	63	pink	50 / 200	382933
20 G*	1,04 - 1,12	0,76 - 0,84	30	61	pink	50 / 200	382934
20 G*	1,04 - 1,12	0,76 - 0,84	48	54	pink	50 / 200	382937
18 G	1,27 - 1,35	0,94 - 1,02	30	95	green	50 / 200	382944
18 G	1,27 - 1,35	0,94 - 1,02	48	87	green	50 / 200	382947
16 G	1,70 - 1,78	1,32 - 1,40	30	193	grey	50 / 200	382954
16 G	1,70 - 1,78	1,32 - 1,40	45	185	grey	50 / 200	382957
BD Insyte™ Autoguard™ BC without wings							
24 G*	0,66 - 0,74	0,48 - 0,56	19	20	yellow	50 / 200	381012
22 G*	0,84 - 0,91	0,61 - 0,69	25	37	blue	50 / 200	381023
20 G*	1,04 - 1,12	0,76 - 0,84	25	63	pink	50 / 200	381033
20 G*	1,04 - 1,12	0,76 - 0,84	30	61	pink	50 / 200	381034
20 G*	1,04 - 1,12	0,76 - 0,84	48	54	pink	50 / 200	381037
18 G	1,27 - 1,35	0,94 - 1,02	30	95	green	50 / 200	381044
18 G	1,27 - 1,35	0,94 - 1,02	48	87	green	50 / 200	381047
16 G	1,70 - 1,78	1,32 - 1,40	30	193	grey	50 / 200	381054
16 G	1,70 - 1,78	1,32 - 1,40	45	185	grey	50 / 200	381057

* with BD Instaflash™ Technology

Peripheral Vascular Access Systems

Indwelling Cannulae

BD Saf-T-Intima™ Integrated Safety IV Catheter System

- BD Saf-T-Intima™ is equipped with a needle protection device that withdraws the needle into a safety barrel as soon as the needle is removed. This minimises the risk of accidental needle stick injuries
- BD Saf-T-Intima™ is fitted with a BD Luer-Lok™ connector for connection to any piece of equipment fitted with a luer adapter
- The BD Saf-T-Intima™ “Y” type adapter allows that the injection site can be used for bolus administration of medication
- Removable injection port
- Blood contact is avoided during insertion
- Sterilization method: ethylene oxide
- Sterile, single use
- CE marked
- Manufactured in BD Vialon™, a unique polyurethane, radiopaque biocompatible catheter material (please see page 40 for further information)



Gauge Size	Outer Diameter (mm)	Catheter Length (mm)	Flow Rate (ml/min)	Subcutaneous Application	Color Code	Shelf Box / Shipping Case	Reference Number
BD Saf-T-Intima™ with Y-Adapter							
24 G	0,7	19	22	✓	yellow	25 / 200	383319
22 G	0,9	19	36	✓	blue	25 / 200	383329
20 G	1,1	25	55	–	pink	25 / 200	383339
18 G	1,3	25	82	–	green	25 / 200	383348
BD Saf-T-Intima™ without Y-Adapter							
24 G	0,7	19	22	✓	yellow	25 / 200	383318
22 G	0,9	19	36	✓	blue	25 / 200	383328
20 G	1,1	25	55	–	pink	25 / 200	383338

BD Saf-T-Intima™ now Approved by the British Standard Institution (BSI) for Subcutaneous Use

BD Saf-T-Intima™ is now approved by the British Standard Institution (BSI) for subcutaneous use, it provides patient satisfaction, HCW safety and cost efficiency.

The use of the BD Saf-T-Intima™ Integrated Safety IV Catheter System for subcutaneous use is an extension to this product's indications for use. Subcutaneous use was not within the scope of the original BD Saf-T-Intima™ CE Certificate.

This extension required full assessment by BD's notified body before BD Saf-T-Intima™ could be used subcutaneously within the European Union. BD has sought to extend the intended use of BD Saf-T-Intima™ because there is a growing practice of subcutaneous infusion, as it can potentially offer a better, more comfortable solution for treating rehydration, pain relief and end of life care, than the traditional IV route.

BD Saf-T-Intima™ Integrated Safety IV Catheter System is approved for subcutaneous infusion therapies by BSI.



Peripheral Vascular Access Systems

Indwelling Cannulae

BD Venflon™ Pro Peripheral IV Catheters with Injection Valve

- The improved design of the injection port cap ensures easy opening and secure closing, whilst avoiding touch contamination of the injection port and valve
- Improved insertion characteristics which increase the chance of first stick success and reduce the risk of thrombophlebitis
- Although the cannula material is rigid before insertion, the qualities of BD Vialon™ allow for softening of the cannula material once it is inside the body, again reducing the risk of thrombophlebitis
- There is an improved flow rate when compared with FEP polymer catheters as BD Vialon™ allows for a larger internal diameter
- BD Luer-Lok™ compatible
- Sterilization method: radiation
- Sterile, single use
- CE marked
- Manufactured in BD Vialon™, a unique polyurethane, radiopaque biocompatible catheter material (please see page 40 for further information)



Gauge Size	Outer diameter (mm)	Catheter Length (mm)	Flow Rate (ml/min)	Color Code	Shelf Box / Shipping Case	Reference Number
BD Venflon™ Pro						
22 G	0,9	25	42	blue	50 / 500	393202
20 G	1,1	32	67	pink	50 / 500	393204
18 G	1,3	32	103	green	50 / 500	393206
18 G	1,3	45	103	green	50 / 500	393207
17 G	1,5	45	133	white	50 / 500	393208
16 G	1,8	45	236	grey	50 / 500	393209
14 G	2,0	45	270	orange	50 / 500	393210

Peripheral Vascular Access Systems

Indwelling Cannulae

BD Venflon™ Peripheral IV Catheters with Injection Valve

- BD Venflon™ intravenous catheters with integrated injection port and valve for peripheral catheterisation
- Permits needle-free administration of bolus medications during infusion
- Back-cut needle bevel and tapered end of the PTFE catheter allows easier insertion and minimizes the risks of vein damage
- Wing position reduces the risk of bacterial contamination by preventing any direct contact between the rear of the catheter hub and the skin. Utilizing the wings, immobility of the catheter can be further ensured by the application of the BD Veca-C™ and BD Vecafix™ IV dressing
- BD Luer-Lok™ compatible
- Sterilization method: ethylene oxide
- Sterile, single use
- CE marked



Gauge Size	Outer diameter (mm)	Catheter Length (mm)	Flow Rate (ml/min)	Color Code	Shelf Box / Shipping Case	Reference Number
BD Venflon™						
22 G	0,8	25	31	blue	50 / 500	391451
20 G	1,0	32	54	pink	50 / 500	391452
18 G	1,2	32	80	green	50 / 500	391457
18 G	1,2	45	80	green	50 / 500	391453
17 G	1,4	45	125	white	50 / 500	391454
16 G	1,7	45	180	grey	50 / 500	391455
14 G	2,0	45	270	orange	50 / 500	391456

Peripheral Vascular Access Systems

Indwelling Cannulae

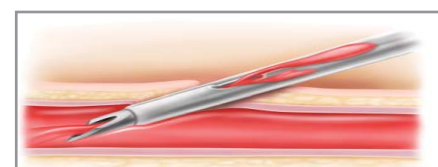
BD Insyte™ and BD Insyte-N™ Peripheral IV Catheters with and without Wings

BD Insyte™

- Easy insertion:
The strength of BD Vialon™ makes it possible to manufacture a catheter with a finer, stronger, more reliable tip, giving it excellent penetration characteristics
- The catheter is rigid before insertion but becomes soft inside the body. This unique feature adds to the biocompatibility of BD Vialon™ and results in a lower risk of complications
- Flow rate:
BD Insyte™ is a thin-walled catheter with a higher flow rate than other catheters of the same gauge
- BD Vialon™ has good kink resistance and kink recovery to ensure an optimum flow rate
- Recommended use:
 - Oncology
 - low venous pressure
 - fragile veins

BD Insyte-N™

- 14 mm long, the shortest on the market to accommodate small vein segments and provides a greater choice of insertion sites
- 24G for catheterization in every situation encountered in neonatology, paediatrics, oncology and geriatrics.
- BD Luer-Lok™ compatible
- Recommended use:
 - fragile veins, e.g. neonatology
 - low venous pressure
- Sterilization method: ethylene oxide
- Sterile, single use
- CE marked
- Manufactured in BD Vialon™, a unique polyurethane, radiopaque biocompatible catheter material (please see page 40 for further information)



BD Instaflash™ Technology. Designed to reduce hit-and-miss insertion.

Gauge Size	Outer diameter (mm)	Catheter Length (mm)	Flow Rate (ml/min)	Color Code	Shelf Box / Shipping Case	Reference Number
BD Insyte-N™ winged						
24 G*	0,7	14	25	yellow	50 / 200	381311
BD Insyte-W™ winged						
24 G*	0,7	19	25	yellow	50 / 200	381312
22 G*	0,9	25	35	blue	50 / 200	381323
20 G*	1,1	30	60	pink	50 / 200	381334
20 G*	1,1	48	55	pink	50 / 200	381337
18 G	1,3	30	105	green	50 / 200	381344
18 G	1,3	48	95	green	50 / 200	381347
16 G	1,7	45	205	grey	50 / 200	381357
BD Insyte-N™ without wings						
24 G*	0,7	14	25	yellow	50 / 200	381211
BD Insyte™ without wings						
24 G*	0,7	19	25	yellow	50 / 200	381212
22 G*	0,9	25	35	blue	50 / 200	381223
20 G*	1,1	30	60	pink	50 / 200	381234
20 G*	1,1	48	55	pink	50 / 200	381237
18 G	1,3	30	105	green	50 / 200	381244
18 G	1,3	48	95	green	50 / 200	381247
16 G	1,7	45	205	grey	50 / 200	381257
14 G	2,1	45	330	orange	50 / 200	381267

* with BD Instaflash™ Technology

Peripheral Vascular Access Systems

Indwelling Cannulae

BD Angiocath™ Peripheral IV Catheter

- Catheter made of radiopaque FEP Polymer
- Catheter with thermo-moulded bevel ensures excellent penetration properties
- Triple-bevel needle
- Transparent clear flashback chamber
- Complete gauge range from 10 G x 76 mm to 24 G x 19 mm
- Available in longer lengths (14 G and 16 G available with 83 mm and 133 mm long catheters)
- BD Luer-Lok™ compatible
- Recommended use:
 - Infusion
 - Transfusion
 - Angiography
- Diameters 12 G and 10 G permit very large volume emergency infusions
- Sterilization method: ethylene oxide
- CE marked
- Sterile, single use



Gauge Size	Outer Diameter (mm)	Catheter Length (mm)	Flow Rate (ml/min.)	Color Code	Shelf Box / Shipping Case	Reference Number
BD Angiocath™						
24 G	0,7	19	17	yellow	50 / 200	381112
22 G	0,9	25	28	blue	50 / 200	381123
20 G	1,1	30	49	pink	50 / 200	381134
20 G	1,1	48	42	pink	50 / 200	381137
18 G	1,3	30	86	green	50 / 200	381144
18 G	1,3	48	79	green	50 / 200	381147
16 G	1,7	30	156	grey	50 / 200	381154
16 G	1,7	48	147	grey	50 / 200	381157
16 G	1,7	83	127	grey	10 / 50	382258
16 G	1,7	133	108	grey	10 / 50	382259
14 G	2,1	30	295	orange	50 / 200	381164
14 G	2,1	48	277	orange	50 / 200	381167
14 G	2,1	83	249	orange	10 / 50	382268
14 G	2,1	133	219	orange	10 / 50	382269
12 G	2,8	76	449	light blue	10 / 50	382277
10 G	3,4	76	609	tan	10 / 50	382287

Peripheral Vascular Access Systems

Indwelling Cannulae for Neonatal and Pediatric Use / IV Dressing

BD Neoflon™ Peripheral IV Catheter

- 24G and 26G PTFE catheter
- BD Neoflon™ is specially designed for the puncture of small fragile vessels, frequently encountered in paediatrics or elderly patients
- The unique design of the detachable wing holder makes the catheter easier to hold, using either a ported or non-ported grip, despite its small size
- The flexible wings facilitate secure fixation, even on the hand or arm of the neonate without the need to

immobilize the limb whilst at the same time reducing the risk of mechanical phlebitis

- Sterilization method: ethylene oxide
- Sterile, single use
- CE marked



Gauge Size	Outer Diameter (mm)	Catheter Length (mm)	Flow Rate (ml/min)	Color Code	Shelf Box / Shipping Case	Reference Number
BD Neoflon™ winged						
24 G	0,7	19	13	yellow	50 / 500	391350
26 G	0,6	19	13	violet	50 / 500	391349

BD Veca-C™ and BD Vecafix™ IV Dressing

BD Veca-C™ and BD Vecafix™ are sterile IV dressings for optimum fixation of ported and non-ported IV catheters.

- BD Veca-C™ and BD Vecafix™ protects the insertion site and allows the site to breathe
- The wound pad absorbs exudate at the insertion site, keeping the site dry
- A comfort pad, to be placed under the wings of the IV catheter, is included in the pack

- In addition, BD Veca-C™ has a transparent window of polyurethane that allows for visualization of phlebitis along the catheter track
- Sterilization method is Ethylene Oxide
- Sterile, single use
- CE marked
- The packing of the BD Veca-C™ dressing contains small amounts of latex, the product itself, however, is latex free



Description	Dimensions (cm)	Shelf Box / Shipping Case	Reference Number
BD Veca-C™ IV dressing with transparent window	7,5 x 6,0	50 / 600	392020
BD Vecafix™ IV dressing without transparent window	7,5 x 6,0	50 / 600	392015

Peripheral Vascular Access Systems

Obturator

Obturator

- The Obturator protects the inner lumen of the catheter from coagulation and thrombus formation after discontinuation of infusion
- The Obturator is color coded to match the corresponding catheter gauge
- Sterilization method: ethylene oxide
- Sterile, single use
- CE marked

Alternatively, we recommend the flushing of the catheter with prefilled flushing devices in order to keep the catheter open.

Please refer to BD PosiFlush™.

Gauge Size	Outer diameter (mm)	Catheter Length (mm)	Flow Rate (ml/min)	Color Code	Indwelling Cannula		Obturator	
					Shelf Box / Shipping Case	Reference Number	Shelf Box / Shipping Case	Reference Number
Obturator for BD Venflon™								
22 G	0,8	25	31	blue	50 / 500	391451	50 / 500	394251
20 G	1,0	32	54	pink	50 / 500	391452	50 / 500	394252
18 G	1,2	32	80	green	50 / 500	391457	50 / 500	394257
18 G	1,2	45	80	green	50 / 500	391453	50 / 500	394253
17 G	1,4	45	125	white	50 / 500	391454	50 / 500	394254
16 G	1,7	45	180	grey	50 / 500	391455	50 / 500	394255
14 G	2,0	45	270	orange	50 / 500	391456	50 / 500	394256

Obturator for BD Venflon™ Pro

22 G	0,9	25	42	blue	50 / 500	393202	50 / 500	394251
20 G	1,1	32	67	pink	50 / 500	393204	50 / 500	394252
18 G	1,3	32	103	green	50 / 500	393206	50 / 500	394257
18 G	1,3	45	103	green	50 / 500	393207	50 / 500	394253
17 G	1,5	45	133	white	50 / 500	393208	50 / 500	394254
16 G	1,8	45	236	grey	50 / 500	393209	50 / 500	394255
14 G	2,0	45	270	orange	50 / 500	393210	50 / 500	394256

Obturator for BD Venflon™ Pro Safety

22 G	0,9	25	42	blue	50 / 500	393222	50 / 500	394251
20 G	1,1	32	67	pink	50 / 500	393224	50 / 500	394252
18 G	1,3	32	103	green	50 / 500	393226	50 / 500	394257
18 G	1,3	45	103	green	50 / 500	393227	50 / 500	394253
17 G	1,5	45	133	white	50 / 500	393228	50 / 500	394254
16 G	1,8	45	236	grey	50 / 500	393229	50 / 500	394255
14 G	2,0	45	270	orange	50 / 500	393230	50 / 500	394256

Peripheral Vascular Access Systems

Obturator

Obturator

Gauge Size	Outer diameter (mm)	Catheter Length (mm)	Flow Rate (ml/min)	Color Code	Indwelling Cannula		Obturator	
					Shelf Box / Shipping Case	Reference Number	Shelf Box / Shipping Case	Reference Number
Obturator for BD Insyte-W™ winged								
24 G*	0,7	19	25	yellow	50 / 200	381312	50 / 500	394287
22 G*	0,9	25	35	blue	50 / 200	381323	50 / 500	394280
20 G*	1,1	30	60	pink	50 / 200	381334	50 / 500	394281
20 G*	1,1	48	55	pink	50 / 200	381337	50 / 500	394282
18 G	1,3	30	105	green	50 / 200	381344	50 / 500	394283
18 G	1,3	48	95	green	50 / 200	381347	50 / 500	394284
16 G	1,7	45	205	grey	50 / 200	381357	50 / 500	394285
Obturator for BD Insyte™ without wings								
24 G*	0,7	19	25	yellow	50 / 200	381212	50 / 500	394287
22 G*	0,9	25	35	blue	50 / 200	381223	50 / 500	394280
20 G*	1,1	30	60	pink	50 / 200	381234	50 / 500	394281
20 G*	1,1	48	55	pink	50 / 200	381237	50 / 500	394282
18 G	1,3	30	105	green	50 / 200	381244	50 / 500	394283
18 G	1,3	48	95	green	50 / 200	381247	50 / 500	394284
16 G	1,7	45	205	grey	50 / 200	381257	50 / 500	394285
14 G	2,1	45	330	orange	50 / 200	381267	50 / 500	394286
Obturator for BD Insyte™ Autoguard™ winged								
24 G*	0,7	19	20	yellow	50 / 200	381912	50 / 500	394287
22 G*	0,9	25	35	blue	50 / 200	381923	50 / 500	394280
20 G*	1,1	30	60	pink	50 / 200	381934	50 / 500	394281
20 G*	1,1	48	55	pink	50 / 200	381937	50 / 500	394282
18 G	1,3	30	105	green	50 / 200	381944	50 / 500	394283
18 G	1,3	48	95	green	50 / 200	381947	50 / 500	394284
16 G	1,7	45	205	grey	50 / 200	381957	50 / 500	394285
Obturator for BD Insyte™ Autoguard™ without wings								
24 G*	0,7	19	20	yellow	50 / 200	381812	50 / 500	394287
22 G*	0,9	25	35	blue	50 / 200	381823	50 / 500	394280
20 G*	1,1	30	60	pink	50 / 200	381834	50 / 500	394281
20 G*	1,1	48	55	pink	50 / 200	381837	50 / 500	394282
18 G	1,3	30	105	green	50 / 200	381844	50 / 500	394283
18 G	1,3	48	95	green	50 / 200	381847	50 / 500	394284
16 G	1,7	45	205	grey	50 / 200	381857	50 / 500	394285
14 G	2,1	45	330	orange	50 / 200	381867	50 / 500	394286

* with BD Instaflash™ Technology

Peripheral Vascular Access Systems

BD Vialon™ Biomaterial

BD Vialon™ Biomaterial

BD Vialon™ Biomaterial is clinically proven to optimize patient outcomes

BD Vialon™ biomaterial is a unique, proprietary biomaterial, developed especially for vascular access.

Multiple clinical investigations conducted over ten years have proven that IV catheters made of BD Vialon™ biomaterial are easier to insert, while providing longer dwell times with improved patient outcomes.^{1,2,3,4}

The insertion characteristics of BD Vialon™ biomaterial catheters are as unique as the material itself. Superior tip integrity, an ultra-smooth micro-surface and an exclusive lubrication process enable the easiest insertion possible, making BD Vialon™ biomaterial catheters easier to place and advance on a wider cross-section of patients.²

Softens inside the vessel

Another distinctive characteristic of BD Vialon™ biomaterial is its ability to soften up to 70% while in the vessel.⁵

By conforming to the shape of the vein, catheters made of BD Vialon™ biomaterial

reduce the chance of irritation to the vessel wall, which in turn reduces incidents of mechanical phlebitis, a major complication of IV therapy.

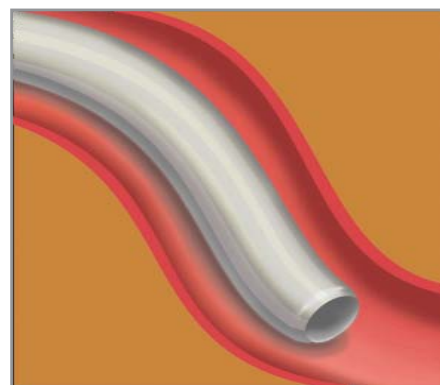
Optimum reduced risk of mechanical phlebitis and IV infiltration

BD Vialon™ catheters changed every 3 or 4 days produce a lower incidence of phlebitis than would other FEP catheters changed every 2 days.¹

The reduction in risk of phlebitis was nearly 30% overall; in severe phlebitis, the reduction was nearly 50%.¹ Vialon cannulae are associated with a 46% lower incidence and severity of infusion thrombophlebitis.²

The BD Vialon™ Optimum Kink Resistance

BD Vialon™ biomaterial is markedly more flexible than other IV catheter materials.⁵ According to one study, "Kinking was not found in any of the Vialon cannulae after removal."



Products manufactured with BD Vialon™

BD Insyte™	BD Nexiva™
BD Insyte-N™ Autoguard™	BD Nexiva™ Diffusics™
BD Insyte™ Autoguard™	BD Saf-T-Intima™
BD Insyte™ Autoguard™ BC	BD Venflon™ Pro
BD Insyte-W™	BD Venflon™ Pro Safety
BD Insyte-N™	

1 Maki D, Ringer M. Risk Factors for Infusion-related Phlebitis with Small Peripheral Venous Catheters. *Annals of Internal Medicine*. 1991;114:845-854.

2 Mendelson MH, Lin-Chen BY, Finkelstein-Blond L, Bailey E, Kogan G (2001): Evaluation of a safety IV catheter (IVC) (Becton Dickinson, Insyte Autoguard): In: Final report [abstract] 11th Annual Scientific Meeting, Society for Healthcare Epidemiology of America.

3 Bausone-Gazda D, Lefaiver CA, Walters SA (2010): A randomized controlled trial to compare the complications of 2 peripheral intravenous catheter-stabilization systems. *J Infus Nurs*. 33(6):371-84.

4 Maki DG, Ringer M (1991): Risk factors for infusion-related phlebitis with small peripheral venous catheters. A randomized controlled trial. *Ann Intern Med*. 114(10):845-54.

5 Gaukroger PB, Roberts JG, Manners TA (1988): Infusion thrombophlebitis: a prospective comparison of 645 Vialon and Teflon cannulae in anaesthetic and postoperative use. *Anaesth Intensive Care*. 16(3):265-71.

6 Stanley MD, Meister E, Fuschuber K (1992): Infiltration during intravenous therapy in neonates: comparison of Teflon and Vialon catheters. *South Med J*. 85(9):883-6

7 McKee JM, Shell JA, Warren TA, Campbell VP (1989): Complications of intravenous therapy: a randomized prospective study - Vialon vs. Teflon. *J Intraven Nurs*. 12(5):288-95.

Peripheral Vascular Access Systems

BD Cannulae / Catheter Conversions

Color coding and corresponding sizes of Cannulae / Catheter

Outside Diameter of Catheter in mm	Range of Actual Outside Diameter in mm	Color ^{1) 2)}	Gauge ³⁾
0,6	0,550 to 0,649	purple	26
0,7	0,650 to 0,749	yellow	24
0,8; 0,9	0,750 to 0,949	blue	22
1,0; 1,1	0,950 to 1,149	pink	20
1,2; 1,3	1,150 to 1,349	green	18
1,4; 1,5	1,350 to 1,549	white	17
1,6; 1,7; 1,8	1,550 to 1,849	grey	16
1,9; 2,0; 2,1; 2,2	1,850 to 2,249	orange	14
2,3; 2,4; 2,5	2,250 to 2,549	red	13
2,6; 2,7; 2,8	2,550 to 2,849	light blue	12
3,3; 3,4	3,250 to 3,549	tan	10

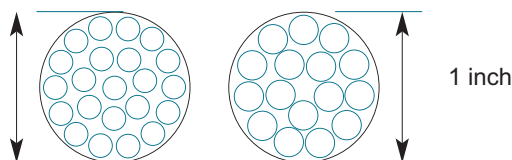
1) The color may be opaque or translucent.

2) The color coding is usually applied to the catheter hub or to an integral fitting.

3) The use of gauge numbers is optional.

Cannulae / Catheter Conversions Outer Diameters / Gauge-French Sizes

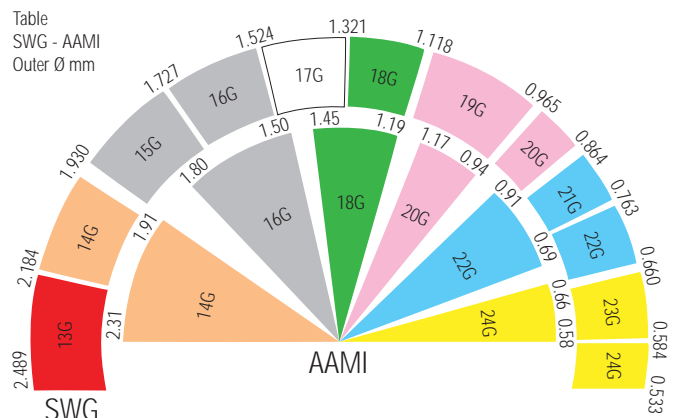
The definition of gauge measurement comes from the AAMI (Association for the Advancement of Medical Instrumentation - USA). This states how many cannulae fit into a tube with an inner diameter of 1" (1 inch = 25.4 mm).



The AAMI uses only even numbers (18, 20, 22, etc.) as measuring units.

A similar measurement definition exists in Great Britain and this is known as the SWG (Standard Wire Gauge). The SWG uses consecutive numbers, i.e. 13 to 24 and is the more common method of measurement for catheters in Europe.

The Charriere, commonly known as French, relates directly to the catheter size, i.e. 1 Ch = 0.33 mm. In the following table the measurements of the AAMI - SWG - French are shown in relation to the outer \varnothing in mm.



Flushing of Vascular Access Devices

BD PosiFlush™ Pre-filled Flushing Syringes [NaCl 0,9 %]

- Ready-to-use, sterile pre-filled flushing devices containing sodium chloride (isotonic NaCl 0.9 %)
- Specially designed for flushing in-situ vascular access devices
- Special design of syringe barrel. The 3 ml and 5 ml syringes have the same barrel diameter as the 10 ml syringe in order to assure a standardized pressure during the flushing process
- BD Luer-Lok™ tip for secure connection to the catheter
- BD PosiFlush™ syringes are designed to eliminate syringe-induced blood reflux enhancing catheter maintenance protocols
- Size and shape of the tip cap allow easy handling, and help avoid touch contamination of the syringe luer connection
- Eliminates the use of needles, thus reducing the potential for accidental needle stick injuries
- Does not contain natural rubber latex
- Terminally steam sterilized - sterility assurance level of 10⁻⁶
- CE marked



Description	Shelf Box / Shipping Case	Reference Number
BD PosiFlush™ XS - Externally Sterile, for use in critical care areas for sterile procedures and within a sterile field		
Prefilled with 3 ml Saline Solution (NaCl 0,9 %)	30 / 240	306580
Prefilled with 5 ml Saline solution (NaCl 0,9 %)	30 / 240	306581
Prefilled with 10 ml Saline solution (NaCl 0,9 %)	30 / 240	306582
BD PosiFlush™ SP - Sterile Fluid Path, for general IV flush procedures		
Prefilled with 3 ml Saline Solution (NaCl 0,9 %)	30 / 480	306583
Prefilled with 5 ml Saline Solution (NaCl 0,9 %)	30 / 480	306584
Prefilled with 10 ml Saline solution (NaCl 0,9 %)	30 / 480	306585

Flushing of Vascular Access Devices

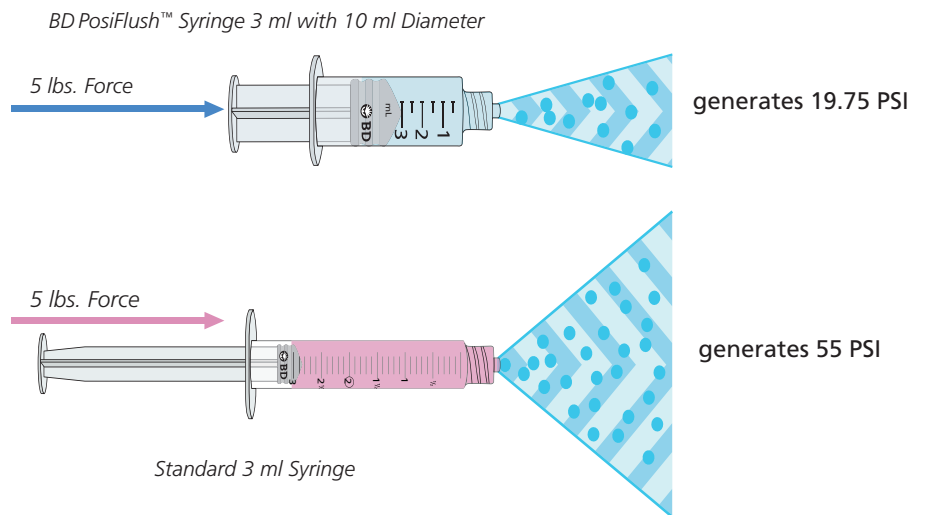
BD PosiFlush™ Prefilled Flushing Syringes [NaCl 0,9 %]

Consistent 10 ml diameter designed to lower the risk of catheter damage

Syringe size has an impact on the risk of catheter damage. Smaller diameter syringes generate greater amounts of pressure than larger diameter syringes.¹

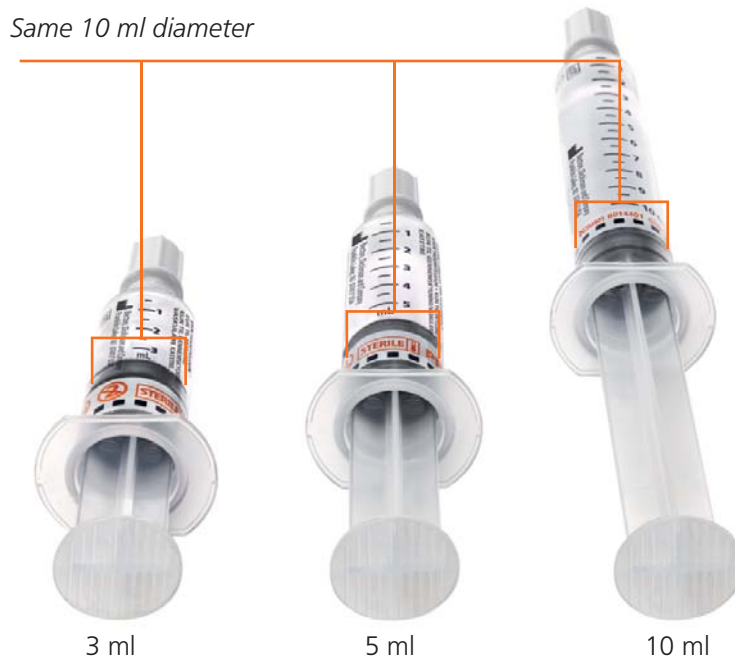
Choose any size BD PosiFlush™ Syringe for lower pressure due to 10 ml syringe diameter (as compared to standard syringes).

All BD PosiFlush™ Syringes assure compliance with PICC manufacturer recommendations for flushing with 10 ml diameter syringes.



¹ Hadaway L (2006): Technology of flushing vascular access devices. J Infus Nurs. 29(3):137-45

BD PosiFlush™ Syringes are available in 3 sizes, all with standard 10 ml syringe diameter.

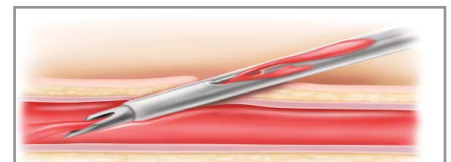


Arterial Catheters

Arterial Catheters

BD Insyte-A™ Arterial Catheters

- Barrel Seal
 - the depressing of the plunger minimises back flow of blood, reducing the risk of blood exposure
- Plunger Head
 - when the plunger head is in line with the marker on the barrel, the guidewire is in line with the needle tip
- Large Flashback Chamber
 - the large transparent flashback chamber enables confirmation of vessel puncture
- Round Tip Guidewire
 - the round tipped guidewire aids smooth securing of the blood vessel
- Sterilization method: ethylene oxide
- Sterile, single use
- CE marked
- Manufactured in BD Vialon™, a unique polyurethane, radiopaque biocompatible catheter material (please see page 40 for further information)



BD Instaflash™ Technology. Designed to reduce hit-and-miss insertion.

Gauge Size	Outer Diameter (mm)	Length (mm)	Color Code	Shelf Box / Shipping Case	Reference Number
BD Insyte-A™ Arterial Catheters					
22 G	0,9	38	blue	20 / 80	382802
20 G	1,1	38	pink	20 / 80	382805

BD™ Arterial Cannula with BD Floswitch™ One-Way-Stopcock

- Catheter designed for insertion into peripheral arteries, for the determination of blood gas estimations or monitoring blood pressure
- 'BD Venflon™-like' insertion characteristics
- Wings to facilitate fixation
- Class IIa according to European Medical Devices Directive 93/42/EEC
- Sterilization method: ethylene oxide
- Sterile, single use
- CE marked
- The BD Floswitch™ On/Off device prevents back-flow and reduces the risk of air emboli and potential contamination of hospital staff by exposure to blood



Gauge Size	Outer Diameter (mm)	Length (mm)	Color Code	Shelf Box / Shipping Case	Reference Number
BD™ Arterial Cannula with BD™ Floswitch™ One-Way-Stopcock					
20 G	1,1	45	red	25 / 500	682245

Arterial Catheters

Arterial Needles

BD™ Arterial Needle for Seldinger Technique

- Two-part arterial needle, specifically designed for the Seldinger Technique
- Solid Inner Needle
 - precisely ground, extremely sharp, short bevel arterial point assures percutaneous entry with minimum trauma and vessel roll
 - solid design eliminates coring
- Outer Thin-Wall Needle
 - close fitting taper provides smooth entry with minimum trauma
 - tapered, square-cut distal end of outer cannula facilitates smooth passage of guide wire through needle
 - lightweight polypropylene BD Luer-Lok™ hub provides excellent instrument balance
- winged handle provides positive control
- manufactured to exacting tolerances to accept guide wire with minimum blood leakage and associated clotting
- funnel-shaped interior of outer needle hub facilitates insertion of guide wire
- For 0.032" - 0.038" guide wire
- Sterilization method: ethylene oxide
- Sterile, single use
- CE marked



Gauge Size	Outer Diameter (mm)	Length (mm)	Color Code	Shelf Box / Shipping Case	Reference Number
BD™ Arterial Needle for Seldinger Technique					
18 G 2 7/8"	1,2	73	pink	10 / 50	408273

BD™ Single Wall Puncture (M/P) Procedure Needle

- A multi purpose needle for traditional or digital angiography. Winged design provides positive control for arterial or venous punctures. Funnel shaped hub facilitates insertion of guide wire.
- One part needle with wings
 - For 0.032" - 0.038" guide wire
 - Sterilization method: ethylene oxide
 - Sterile, single use
 - CE marked
 - Lightweight plastic BD Luer-Lok™ hub provides excellent "feel" and balance
 - Thin-wall needle for maximum I.D., minimum O.D. Sharp bevel for easy vessel entry



Gauge Size	Outer Diameter (mm)	Length (mm)	Color Code	Shelf Box / Shipping Case	Reference Number
BD™ Single Wall Puncture (M/P) Procedure Needle					
18 G 2 3/4"	1,2	70	pink	10 / 50	408295

Anaesthesia Systems

Spinal Anaesthesia

BD™ Whitacre Pencil Point Spinal Needles

BD™ Whitacre Needles are manufactured with proprietary needle tipping, side-port and unique low-glare hub technologies.

- Tip designed to spread the dural fibres and help reduce the occurrence of post dural puncture headache¹
- The thin wall design is intended for improved visualization of cerebrospinal fluid
- Distinct “pop” as the pencil point penetrates the dura
- Pencil point design intended to provide better “tip strength” to minimize bending or breakage

- Precision-formed side hole allows and facilitates directional flow of anaesthetic agents
- Translucent hub for ease of cerebrospinal fluid visualization
- Sterilization method: ethylene oxide
- Sterile, single use
- CE marked

¹ Vallejo MC, Mandell GL, Sabo DP, Ramanathan S (2000): Postdural puncture headache: a randomized comparison of five spinal needles in obstetric patients. *Anesth Analg.* 91(4):916-20



Gauge Size	Length (Inch)	Outer diameter (mm)	Length (mm)	Color Code	Shelf Box / Shipping Case	Reference Number
BD™ Whitacre Pencil Point Spinal Needles						
27 G	3 1/2 "	0,4	90	grey	25 / 200	402051
27 G	4 11/16 "	0,4	119	grey	10 / 50	409443
25 G	3 1/2 "	0,5	90	blue	25 / 200	402050
25 G	4 11/16 "	0,5	119	blue	10 / 50	409442
24 G	3 1/2 "	0,55	90	purple	25 / 200	405104
22 G	3 1/2 "	0,7	90	black	25 / 200	401995
BD™ Whitacre Pencil Point Spinal Needles with Integral Introducer 22 G 1 1/4"						
27 G	3 1/2 "	0,4	90	grey	25 / 200	405075
27 G	4 1/16 "	0,4	103	grey	25 / 200	405113
BD™ Whitacre Pencil Point Spinal Needles with Integral Introducer 20 G 1 1/4"						
25 G	3 1/2 "	0,5	90	blue	25 / 200	405076
25 G	4 1/16 "	0,5	103	blue	25 / 200	405112
Introducers						
20 G	1 1/4 "	for 24/25/26 G Needles	32	transparent	25 / 200	405260
22 G	1 1/4 "	for 27 G Needles	32	transparent	25 / 200	405261

Anaesthesia Systems

Spinal Anaesthesia

Quincke Point Spinal Needles

- Key/slot arrangement of stylet and cannula hubs facilitates aligned needle and stylet bevel orientation
- Translucent window hub (featuring contact clarity) that helps visualization of cerebrospinal fluid
- Fitted stylet designed to reduce tissue coring
- Sterilization method: ethylene oxide
- Sterile, single use
- CE marked



Gauge Size	Length (Inch)	Outer diameter (mm)	Length (mm)	Color Code	Shelf Box / Shipping Case	Reference Number
Quincke Point Spinal Needles						
27 G	3 1/2"	0,4	90	grey	25 / 200	405259
26 G	3 1/2"	0,4	90	brown	25 / 200	405258
25 G	4 11/16"	0,5	119	blue	10 / 50	405234
25 G	3 1/2"	0,5	90	orange	25 / 200	405257
25 G	3"	0,5	75	orange	25 / 200	405246
25 G (short bevel)	2"	0,5	51	blue	25 / 200	405245
25 G (short bevel)	1"	0,5	25	blue	25 / 200	405243
23 G	3 1/2"	0,6	90	turquoise	25 / 200	405240
22 G	7"	0,7	178	black	10 / 50	405149
22 G	5"	0,7	127	black	10 / 50	405148
22 G	3 1/2"	0,7	90	black	25 / 200	405256
22 G	3"	0,7	75	black	25 / 200	405255
22 G	2 1/2"	0,7	63	black	25 / 200	405244
22 G	1 1/2"	0,7	38	black	25 / 200	405254
20 G	6"	0,9	152	yellow	10 / 50	405211
20 G	3 1/2"	0,9	90	yellow	25 / 200	405253
20 G	3"	0,9	75	yellow	25 / 200	405252
20 G	1 1/2"	0,9	38	yellow	25 / 200	405251
19 G	3 1/2"	1,1	90	tan	25 / 200	405250
19 G	3"	1,1	75	tan	25 / 200	405249
18 G (intradiscal)	6"	1,2	152	pink	10 / 50	408360
18 G	3 1/2"	1,2	90	pink	25 / 200	405248
18 G	3"	1,2	75	pink	25 / 200	405247

Anaesthesia Systems

Spinal Anaesthesia

Quincke Point Spinal Needles

- Key/slot arrangement of stylet and cannula hubs facilitates aligned needle and stylet bevel orientation
- Translucent window hub (featuring contact clarity) that helps visualization of cerebrospinal fluid
- Fitted stylet designed to reduce tissue coring
- Sterilization method: ethylene oxide
- Sterile, single use
- CE marked



Gauge Size	Length (Inch)	Outer diameter (mm)	Length (mm)	Color Code	Shelf Box / Shipping Case	Reference Number
Quincke Point Spinal Needles with Introducer 22 G 1 1/4"						
Spinal Needle 27 G	3 1/2"	0,4	90	grey	25 / 200	405069
Quincke Point Spinal Needles with Introducer 20 G 1 1/4"						
26 G	3 1/2"	0,45	90	brown	25 / 200	405065
25 G	3 1/2"	0,5	90	orange	25 / 200	405084
Introducers						
20 G	1 1/4"	for 24/25/26 G Needles	32	transparent	25 / 200	405260
22 G	1 1/4"	for 27 G Needles	32	transparent	25 / 200	405261

Anaesthesia Systems

Epidural Products

Perisafe Plus!™ Epidural Procedure Kits

A selection of kits for epidural anaesthesia procedures with BD Weiss needles

- Modified Tuohy needle point designed for greater penetration characteristics
- Shorter point length than standard epidural needles designed to minimize accidental dural puncture
- Key/slot arrangement of stylet and cannula hubs facilitates aligned needle and stylet bevel orientation
- BD Epilor™ Loss-of-Resistance (L.O.R.) plastic syringe designed for better detection of epidural space

Standard components included in all Perisafe Plus!™ Epidural Procedure Kits:

- Tuohy Weiss Epidural Needle
- Epidural Catheter 90 cm
- Catheter Connector
- 0,22 µm Flat Filter

Standard components included in all Mini-Perisafe Plus!™ Epidural Procedure Kits:

- Same as Perisafe Plus!™, however does not include L.O.R. Syringe
- Sterilization method: ethylene oxide
- Sterile, single use
- CE marked



Weiss Epidural Needle	L.O.R. Plastic Syringe	Open End Epidural Catheter	Closed End Epidural Catheter	Catheter Connector	0,22 µm Flat Filter	Shelf Box / Shipping Case	Reference Number
Perisafe Plus!™ Epidural Procedure Kits							
17 G	✓	–	19 G	✓	✓	12 / 12	401506M
18 G	✓	–	20 G	✓	✓	12 / 12	401508M
18 G	✓	20 G	–	✓	✓	12 / 12	401509M
Mini-Perisafe Plus!™ Epidural Procedure Kit							
18 G	–	–	20 G	✓	✓	12 / 12	401511M

Perisafe Plus!™ and Mini-Perisafe Plus!™ are produced by Mölnlycke Health Care with BD components and distributed by Becton, Dickinson and Company.

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Anaesthesia Systems

Epidural Products

Single Components for Epidural Anaesthesia

BD Epilor™ Loss-of-Resistance Syringes

BD Epilor™ Loss-of-Resistance Syringe (LOR) has a double ribbed stopper to prevent leakage during aspiration.

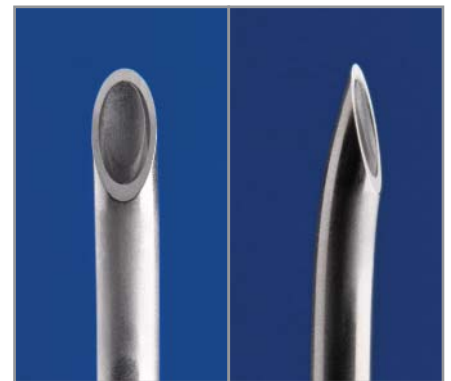
- Sterilization method: ethylene oxide
- Sterile, single use
- CE marked



Tuohy and Tuohy Weiss Epidural Needles

- Epidural needles with locking base and 'modified Tuohy' bevel intended to minimize accidental dural puncture
- Needle graduation marks every 10 mm, paediatric epidural needle graduation marks every 5 mm
- Needle equipped with moulded plastic hub

- Sterilization method: ethylene oxide
- Sterile, single use
- CE marked



Gauge Size	Length (Inch)	Outer diameter (mm)	Length (mm)	Color Code	Shelf Box / Shipping Case	Reference Number
BD Epilor™ Loss-of-Resistance Syringes						
7 ml L.O.R. Plastic Syringe with BD Luer-Lok™ Tip					10 / 50	405291
7 ml L.O.R. Plastic Syringe Luer Slip Tip					10 / 50	405292
Tuohy Epidural Needles without wings						
17 G	3 1/2 "	1,5	90	grey	10 / 50	405092
18 G	3 1/2 "	1,2	90	pink	10 / 50	405018
20 G	3 1/2 "	0,9	90	yellow	10 / 50	405028
Tuohy Weiss Epidural Needles winged						
16 G	3 1/2 "	1,5	90	transparent	10 / 50	405194
17 G	3 1/2 "	1,5	90	grey	10 / 50	405191
17 G	5 "	1,5	127	grey	10 / 50	405193
18 G	3 1/2 "	1,27	90	pink	10 / 50	405188
18 G	5 "	1,27	127	pink	10 / 50	405190
20 G	3 1/2 "	0,9	90	yellow	10 / 50	405186

Anaesthesia Systems

Combined Spinal / Epidural Anaesthesia Sets

BD Durasafe Plus!™ Combined Spinal and Epidural Set

The BD range of Combined Spinal and Epidural (CSE) Anaesthesia Sets has been designed to help ensure correct placement of the epidural needle.

BD Durasafe Plus!™ CSE Set intended for rapid onset of anaesthesia, extended duration, and better pain management.

- CSE set system with BD™ Whitacre needle length matched to epidural needle: spinal needle can extend up to 15 mm beyond epidural needle point
- Secure locking device permits the spinal needle to lock at any extension (0-15 mm) distal to the epidural needle tip
 - BD™ Whitacre spinal needle can rotate 360° when the mechanism is locked
 - allows spinal needle to move freely through mechanism when unlocked
 - the locking device is designed for ease of use and stability for better user control

Standard components included in all kits:

- Tuohy Weiss Epidural Needle
 - Loss-of-Resistance Syringe (L.O.R)
 - BD Luer-Lok™ cap
 - Catheter Connector
 - Round Tip Epidural Catheter with Introducer
 - Tuohy Borst Adaptor (not shown)
 - 0,22 µm Flat Filter
 - BD™ Whitacre Spinal Needle
- Sterilization method: ethylene oxide
 - Sterile, single use
 - CE marked



Tuohy Weiss Epidural Needle	Spinal Needle	L.O.R. Plastic Syringe	Epidural Catheter	Shelf Box / Shipping Case	Reference Number
BD Durasafe Plus!™ Combined Spinal and Epidural Sets					
17 G	BD Whitacre 27 G	✓	closed end 19 G	6 / 30	400286
18 G	BD Whitacre 27 G	✓	closed end 20 G	6 / 30	400287

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Surgical Accessories

Biopsy Needles

Chiba Biopsy Needles

- 22G (7/10 mm) thin wall, short bevel (26°) needle with accurate grip which reduces the risk of vessel and tissue damage.
- Translucent base aids visualisation of vascular breaks
- Hub locking system to prevent biopsy hazards
- Two different needle lengths available
- Needle graduated in centimetres to measure insertion depth
- Chemonucleolysis:
 - the intradiscal needle is used as a guide for the Chiba needle the distal end of which has a 2 cm curve to improve intradiscal insertion
- Anaesthesiology:
 - Sciatic block
- Sterilization method: ethylene oxide
- Sterile, single use
- CE marked



Indications

- Soft tissue biopsy
- Transhepatic cholangiography

Gauge Size	Length (Inch)	Outer diameter (mm)	Length (mm)	Color Code	Shelf Box / Shipping Case	Reference Number
Chiba Biopsy Needles						
22 G	8"	0,72	203	black	10 / 50	408269
22 G	6"	0,72	152	black	10 / 50	408268

BD™ Westcott Biopsy Needles

- For direct percutaneous fine needle aspiration biopsy
- Available in two gauges and three lengths for maximum versatility for both deep and superficial masses
- This needle has proven use for many biopsy applications including that of pulmonary, hilar and mediastinal masses, as well as lesions in the liver, pancreas and other areas
- The BD™ Westcott Biopsy needle is a 2-piece, thin-wall needle modified to include a slotted opening measuring 2.2 mm in length located approximately 3 mm from the needle tip
- The slot creates a second cutting edge, in addition to the needlepoint, enabling aspirations of larger amounts of material without any apparent increase in complications
- For histological, cytological and bacteriological sampling
- Sterilization method: ethylene oxide
- Sterile, single use
- CE marked



Gauge Size	Length (Inch)	Outer diameter (mm)	Length (mm)	Color Code	Shelf Box / Shipping Case	Reference Number
BD™ Westcott Biopsy Needles						
22 G	7"	0,7	178	black	10 / 50	408267
22 G	5 1/2"	0,7	135	black	10 / 50	408266
22 G	3 1/2"	0,7	90	black	10 / 50	408265
20 G	7"	0,9	178	yellow	10 / 50	408264
20 G	5 1/2"	0,9	135	yellow	10 / 50	408263
20 G	3 1/2"	0,9	90	yellow	10 / 50	408262

Surgical Accessories

Heimlich Chest Drain Valve / Scrub Brushes, Sponges

Heimlich Chest Drain Valve

- The Heimlich Chest Drain Valve is a specially-designed flutter valve used to replace underwater bottles in chest drainage
- Constructed of rubber tubing, the valve is compressed at one end to form leaflets that control unidirectional flow
- The valve is encased in a transparent plastic chamber with tapered ends
- The proximal end of the casing can be attached to most chest catheters and the distal end to tubing that empties into a plastic bag
- If desired, the distal end can be connected to regulated suction attachment of urine bag
- PVC free, contains latex
- Sterilization method: ethylene oxide
- Sterile, single use
- CE marked



Description	Shelf Box / Shipping Case	Reference Number
Heimlich Chest Drain Valve	10 / 10	373460

BD E-Z Scrub™ Brush/Sponge

Single use scrub brush with soft polyethylene bristles on one side and a polyether sponge on the other. Ergonomically designed for greater user comfort and effectiveness.

Rigidity

- The standard rigidity of BD E-Z Scrub™ Brush has been designed to provide the efficiency and comfort needed for surgical scrub brushes
- The tapered design allows for two degrees of softness, appropriate for different areas of skin conditions
- The inner recessed bristles are stiffer and designed specially to remove dirt from beneath the nails

- The sponge provides cleaning for gentle use on irritated areas, or when/where severe mechanical action or brushing is not required, such as arms and forearms

Recommended use

- Surgical scrubbing of hands before wearing sterile gloves for aseptic procedures
- Sterilization method: radiation
- Sterile, single use



Description	Shelf Box / Shipping Case	Reference Number
BD E-Z Scrub™ Brush/Sponge without active ingredient, dry, sterile	30 / 300	371607

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Sharps Disposal Systems

BD™ Sharps Containers

BD™ Sharps Containers - focused on safety.

The new range of BD™ Sharps Containers is designed to optimise "Point of Use" disposal to help reduce the risks of blood exposure and needle stick injuries associated with the disposal process.

BD™ Sharps Containers come in sizes of 1,5 l - 3,0 l - 5,0 l - 7,0 l

- Functional ease of use - visible and audible locking system to ensure proper assembly
- Visible temporary and permanent closure features
- Temporary and permanent closure engagement without touching the access area
- Retention valve against spillage due to optimal container opening for increased ease of disposal while restricting access for safety
- Manually inviolable when container is permanently locked

- Clear visualisation to the maximum fill line
- Rounded corners to ensure optimal impact resistance if dropped to avoid cracking
- Accompanied by a range of brackets and accessories focusing on "correct placements" and "secure fitment"¹
- BD™ Sharps Containers are made of polypropylene and may be incinerated and autoclaved

Regulatory Compliance

- Compliant with the British Standard BS 7320 : 1990²
- Compliant with the French Standard NFX 30 - 500³
- Compliant with the UN Standard, UN 3291⁴

1 "Selecting, Evaluating and Using Sharps Disposal Containers" NIOSH/CDC Publication No. 97-111

2 not for BD™ Sharps Container 0.87 l

3 not for BD™ Sharps Containers 0.45 and 22.7 l

4 not for BD™ Sharps Containers 0.87 and 22.7 l



Nominal Capacity (l)	Usable Capacity (l)	Dimensions (cm)	Shelf Box / Shipping Case	Reference Number
BD™ Sharps Containers				
0.45	0.36	10.5 x 5.0 x 17.0	100 / 100	302434
0.87	0.7	8.9 x 7.4 x 16.8	50 / 50	367202
1.5	1.2	16.5 x 16.0 x 20.5	40 / 40	305624
3.0	2.4	18.2 x 18.1 x 26.0	25 / 25	305625
5.0	4.0	30.4 x 22.2 x 20.8	20 / 20	305626
7.0	5.6	30.4 x 22.2 x 25.5	16 / 16	305627
22.7	18.2	23.0 x 22.7 x 44.5	12 / 12	300479

Sharps Disposal Systems

BD™ Sharps Containers – Brackets and Accessories

Using brackets with the correctly selected sharps container is critical to ensure the correct placement and the secure fitment of the sharps container at the Point of Use for maximum safety.

Clearly identifying a place for the sharps container using a bracket will help to ensure the availability in the appropriate setting at all times.

The secure fitment of the sharps container in a bracket ensures maximum stability and allows the attention to be focused on the patient and not on the disposal process.

Desktop Brackets (fitting for 1,5 - 7 l BD™ Sharps Containers)

- For placement on flat surfaces or secured to walls
- Attachable to rails with the addition of a Universal Rail Adapter
 - Universal Rail Adapter comes in two sizes adjustable to round or square rails

Mounting Accessories for all Desktop Bracket Sizes

- on a smooth horizontal surface
- on a vertical wall
- on round and square rails
- on a medication cart

Hanging Brackets (fitting for 1,5 - 7 l BD™ Sharps Container)

- for a placement on medication carts

Desktop and Hanging Brackets are made of metal with a plastic coating to ensure that they are “easy clean” and remain “rust free” for safe hygiene practices and optimum use conditions.



Description	Secure fitment of							Shelf Box / Shipping Case	Reference Number
	0,45 l	0,87 l	1,5 l	3,0 l	5,0 l	7,0 l	22,7 l		
Brackets and Accessories for BD™ Sharps Containers									
Plastic bracket for placement on horizontal surfaces	✓	–	–	–	–	–	–	12 / 12	305964
Metal cup bracket for placement on horizontal surfaces	–	✓	–	–	–	–	–	50 / 50	305970
Desktop bracket	–	–	✓	–	–	–	–	6 / 6	305645
Desktop bracket	–	–	–	✓	–	–	–	6 / 6	305250
Desktop bracket	–	–	–	–	✓	–	–	6 / 6	305253
Desktop bracket	–	–	–	–	–	✓	–	6 / 6	305255
Hanging bracket	–	–	✓	–	–	–	–	6 / 6	305710
Hanging bracket	–	–	–	✓	–	–	–	6 / 6	305251
Hanging bracket	–	–	–	–	✓	–	–	6 / 6	305252
Hanging bracket	–	–	–	–	–	✓	–	6 / 6	305254

Description			
Accessories			
Universal Adapter (small)	fitting for all Desktop brackets	6 / 6	305636
Universal Adapter (large)	fitting for all Desktop brackets	6 / 6	305637

Closed System Drug Transfer Device

BD PhaSeal™ System

Take a closer look at the first FDA cleared CSTD indicated to reduce exposure to hazardous drugs

BD PhaSeal™ Closed System Drug Transfer Device is the first CSTD cleared under the FDA's newly created product code, ONB: Closed Antineoplastic and Hazardous Drug Reconstitution and Transfer System. Based on:

- Nothing Out – No escape of hazardous drug or vapor concentration (leakproof & airtight)
- Nothing In – No transfer of environmental contaminants
- Prevention of Microbial Ingress

New FDA code clarifies misconceptions in the market place*

- Establishes a specific product code for CSTD's indicated to reduce exposure to hazardous drugs
- Requires data to prove a system is closed for use with hazardous drugs
- Requires data to demonstrate reduction in healthcare worker exposure

New

ONB: Closed Antineoplastic and Hazardous Drug Reconstitution and Transfer System

VS

Existing

LHI: Set, I.V. Fluid Transfer
FPA: Intravascular Administration Set
FMF: Piston Syringe

	Specific to CSTDs	Requires Proof the system is closed	Requires Data to prove HCW exposure reduction
ONB	Yes	Yes	Yes
LHI / FPA / FMF	No	No [†]	No

* Data on file with BD

† Unless system is expressly indicated as a closed system drug transfer device (CSTD) that mechanically prohibits the transfer of environmental contaminants into the system and the escape of drug or vapor concentrations outside the system.

Closed System Drug Transfer Device

Protectors

BD PhaSeal™ Protector – Drug Vial Access Device

The Protector is a pressure equalization device that is permanently attached to the vial and is used in the preparation of either powder or liquid drugs.

It provides airtight safety due to the sealed expansion chamber and dry leak-proof connections.

The Protector establishes and maintains neutral pressure when air or fluid is injected into or aspirated from the vial.

- For drug vials with neck diameters from 13 to 32 mm
- Ref. nos. 515103 and 515106 are packed in multipacks of 5 units each

Helps to reduce coring:

- Ref. no. 515117 contains a plastic spike instead of a metal needle with two ports, one for air and one for drug access
- Sterilization method: ethylene oxide
- Sterile, single use
- CE marked



Description	For drug vials with neck diameter of (mm)	Pressure Equalization (ml)	Color Code	Shelf Box / Shipping Case	Reference Number
BD PhaSeal™ Protectors					
Protector P14	13	20	blue	50 / 200	515100
Protector P21	20	20	red	50 / 200	515102
Protector P21 Multi	20	20	red	250 case	515103
Protector P28	28	60	white	25 / 100	515104
Protector P50	20	50	green	25 / 100	515105
Protector P50 Multi	20	50	green	150 case	515106
Protector P53	32	50	purple	25 / 100	515107
Protector P55 with plastic spike	20	50	light green	25 / 100	515117

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Closed System Drug Transfer Device

Injectors

BD PhaSeal™ Injector – Syringe Safety Device

The Injector Luer Lock attaches to a standard syringe or IV line for a dry, leakproof connection during drug preparation and administration. It ensures a closed drug transfer by means of tightly sealed, double elastomeric membranes.

BD PhaSeal™ Injector Luer N30C

- Transfer device that attaches to a disposable syringe with standard Luer connection
- with red protection cap

BD PhaSeal™ Injectors Luer Lock N35 and N35C

- Transfer devices that attach to a disposable syringe or IV tubing with a standard Luer Lock connection
- Injector N35 without protection cap
- Injector N35C with clear protection cap
- Ref. no. 515005 is packed in multi-packs of 5 units each
- Sterilization method: ethylene oxide
- Sterile, single use
- CE marked



Description	Protection cap	Shelf Box / Shipping Case	Reference Number.
BD PhaSeal™ Injectors			
Injector Luer N30C for syringes with Luer connection	red	50 / 200	515001
Injector Luer Lock N35 for syringes or IV bag with Luer Lock connection	–	50 / 200	515003
Injector Luer Lock N35C for syringes or IV bag with Luer Lock connection	clear	50 / 200	515004
Injector Luer Lock N35C Multi for syringes or IV bag with Luer Lock connection	clear	250 case	515005

Closed System Drug Transfer Device

Connectors

BD PhaSeal™ Connector – Access Port

The Connector is the access port for closed administration of hazardous drugs during injections and infusions.

It attaches to standard Luer Lock ports and seals these due to the unique membrane design.

BD PhaSeal™ Connector Luer Lock C35

- Attaches to the patient's IV line, providing a closed connection to the Injector
- Standard Luer Lock connection
- Sterilization method: ethylene oxide
- Sterile, single use
- CE marked



BD PhaSeal™ Connector Luer Lock C45

- Attaches to the patient's IV line, providing a closed connection to the Injector
- Standard Luer Lock connection
- This Connector is designed for use with needle-free ports with internal pistons
- Sterilization method: ethylene oxide
- Sterile, single use
- CE marked



BD PhaSeal™ Connector Twist Lock C48

- Attaches to the patient's IV line, providing a closed connection to the Injector
- Standard Luer Lock connection
- Once connected to an Injector, this Connector is permanently attached to the IV-port
- Sterilization method: ethylene oxide
- Sterile, single use
- CE marked



BD PhaSeal™ Y-Site Connector C80

- Extension tubing with built-in BD PhaSeal™ Connector
- Total length: 21 cm
- Priming volume: 1,6 ml
- Contains PVC (DEHP free)
- Sterilization method: ethylene oxide
- Sterile, single use
- CE marked



Description	Length (cm)	Priming Volume (ml)	Shelf Box / Shipping Case	Reference Number
BD PhaSeal™ Connectors				
Connector Luer Lock C35			50 / 200	515200
Connector Luer Lock for use with needle-free ports with internal pistons C45			50 / 200	515202
Connector Twist Lock C48			50 / 200	515203
Y-site connector extension tubing with built-in BD PhaSeal™ Connector C80	22	1,7	30 / 120	515304

Closed System Drug Transfer Device

Administration Products

BD PhaSeal™ Administration Products – IV Bag Access

BD PhaSeal™ Infusion Set C50

- Standard IV infusion set with built-in PhaSeal Connector for closed transfer to IV bag
- Total length: 188 cm
- Priming volume: 17,5 ml
- Inline filter: 15 µm
- Drops/ml: 20
- Contains PVC (DEHP free)
- Sterilization method: ethylene oxide
- Sterile, single use
- CE marked



BD PhaSeal™ Secondary Set C60, Drip Chamber

- Secondary set with built-in PhaSeal Connector for closed transfer to IV bag
- Total length: 102 cm
- Priming volume: 12,5 ml
- Drops/ml: 20
- Contains PVC (DEHP free)
- Sterilization method: ethylene oxide
- Sterile, single use
- CE marked



BD PhaSeal™ Secondary Set C61

- Secondary set with in-built BD PhaSeal™ Connector for closed transfer to IV bag
- Total length: 49 cm
- Priming volume: 3 ml
- Contains PVC (DEHP free)
- Sterilization method: ethylene oxide
- Sterile, single use
- CE marked



Description	Length (cm)	Priming Volume (ml)	Inline Filter	Drops (ml)	Shelf Box / Shipping Case	Reference Number
BD PhaSeal™ Administration Products - IV Bag Access						
Infusion Set C50	188	17	15 µm	20	80 / 80	515300
Secondary Set Drip Chamber C60	102	12,5	–	20	20 / 80	515301
Secondary Set C61	49	3,0	–		30 / 120	515302

Closed System Drug Transfer Device

Administration Products

BD PhaSeal™ Administration Products – IV bag access

BD PhaSeal™ Infusion Adapter C70

- Connection between IV bag and non-vented infusion set
- Built-in BD PhaSeal™ Connector for closed addition to IV bag
- Contains PVC and DEHP
- Sterilization method: ethylene oxide
- Sterile, single use
- CE marked



BD PhaSeal™ L Connector C90

- The L Connector provides a dry connection for closed transfer of hazardous drugs to semi-rigid plastic containers with rubber ports.
- Sterilization method: ethylene oxide
- Sterile, single use
- CE marked



BD PhaSeal™ Infusion Adapter C100

- Connection between IV bag and non-vented infusion set.
- Built-in BD PhaSeal™ Connector for closed transfer to IV bag
- Ref. no. 515307 is packed in multipacks of 5 units each
- Sterilization method: ethylene oxide
- Sterile, single use
- CE marked



BD PhaSeal™ Cyto Admin 4 Line Set C110

- The benefits of the female Luer-Lock adapters with integrated check valves also allow applications where medication is to be administered by an infusion pump
- Contains PVC (DEHP free) and TOTM plasticizer
- The vented spike with check valve also permits use of bottles or bags
- Sterilization method: ethylene oxide
- Sterile, single use
- CE marked



Description	Length (cm)	Shelf Box / Shipping Case	Reference Number
BD PhaSeal™ Administration Products - IV Bag Access			
Infusion Adapter C70	17	50 / 50	515303
L Connector C90		50 / 200	515305
Infusion Adapter C100		50 / 200	515306
Infusion Adapter C100 Multipack		250 case	515307
Cyto-Ad Z®*		60	515308

* Cyto-Ad Z is a registered trademark of Codan

Closed System Drug Transfer Device

Application Products

BD PhaSeal™ Application Products

BD PhaSeal™ Infusion Clamp M25

- Clamp for securing the connection of Injector Luer Lock N35 to the Connector
- Non-sterile
- CE marked



BD PhaSeal™ Assembly Fixture M12

- Mechanical device used for consistent and simple attachment of a Protector to a drug vial
- Non-sterile
- CE marked



Description	Shelf Box / Shipping Case	Reference Number
BD PhaSeal™ Application Products		
Infusion Clamp M25	25 / 100	515403
Assembly Fixture M12	1 / 1	515400

Closed System Drug Transfer Device

Application Products

BD PhaSeal™ Application Products

BD PhaSeal™ Cap for Injector Membrane M50

- Protects membrane on Injector from direct contact with contaminated surfaces during transport and storage
- Sterile
- CE-marked



BD PhaSeal™ Connector Cap M70

- Protects membrane on Connector from direct contact with contaminated surfaces during Transport and storage
- Connector Cap M70 was especially designed for Infusion Adapter C70
- Sterile
- CE-marked



Description	Shelf Box / Shipping Case	Reference Number
BD PhaSeal™ Application Products		
Cap for Injector Membrane M50	50 / 200	515404
Connector Cap M70	50 / 200	515406

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Social Responsibility - Trusted Partners

The BD “Trusted Partners” Campaign

The BD “Trusted Partners” Campaign was launched in early 2003. The campaign highlights the partnerships BD has formed with philanthropic, government and nongovernmental agencies for more than 100 years in order to make a significant impact on healthcare and to save lives throughout the world.

The “Trusted Partners” Initiative focuses on the relationship of BD with prominent nonprofit organizations and describes the work being done through the partnerships to address some of the world’s most important and fundamental health issues.

Through philanthropy, sustainable business efforts and the development of pioneering technologies, BD is helping to support the development of an effective AIDS vaccine, eliminate deadly diseases (including measles and maternal and neonatal tetanus), protect against smallpox, fight the spread of diseases and provide relief in the wake of natural and manmade disasters.

These initiatives are an essential element of the commitment of BD to pursue its purpose of “Helping all people live healthy lives.”



DIABETES:

The leader in diabetes care since 1924, BD has the world’s most complete array of insulin delivery and monitoring products, donates millions of dollars to research and develops educational programs for diabetes patients.



AMERICARES:

Since 1986, BD and AmeriCares have partnered to make a positive impact on healthcare globally by responding to emergency medical needs and supporting humanitarian assistance programs.



HIV/AIDS:

BD is committed to the battle against HIV/AIDS for future generations on many fronts with partner organizations, such as the William J. Clinton Presidential Foundation, the Global Business Coalition on HIV/AIDS, the International AIDS Vaccine Initiative and Save the Children.



HEALTHCARE WORKER SAFETY:

In 1991, BD was founding sponsor of the University of Virginia International Healthcare Worker Safety Center and primary supporter of the EPINet™ Surveillance system, a database that tracks occupational blood exposures. This partnership demonstrates BD’s leading efforts to protect caregivers by designing devices with safety features.

Social Responsibility - Trusted Partners

The BD “Trusted Partners” Campaign



IAVI:

BD has partnered with the International AIDS Vaccine Initiative (IAVI) to evaluate and identify vaccines that can prevent development of the AIDS virus.



PROJECT HOPE:

Through an expansive “Train the Trainer” program, BD is performing an influential role in the education of Chinese people about the prevention and treatment of diabetes.



UNICEF:

The purpose of the UNICEF program is to eliminate maternal and neonatal tetanus - a deadly health threat in many developing nations - by the year 2005.



AMERICAN RED CROSS:

BD’s partnership with the American Red Cross supports the Measles Initiative, a commitment to vaccinate 200 million African children over 5 years.



BIOTERROR:

BD was on the frontline for polio vaccines and once again, BD is at the forefront in protection against smallpox.

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BECTON DICKINSON INTERNATIONAL
Branch of BECTON DICKINSON B.V. ("BDI")
Erembodegem Dorp 86
9320 - Erembodegem (Belgium)

1. General

- 1.1 The General Sales Conditions shall apply to all offers (including offers by means of pro forma invoices), acceptances of purchase orders, sales, and deliveries of BDI.
- 1.2 The General Sales Conditions shall be deemed accepted by the Buyer if Buyer has not in writing clearly objected to them.
- 1.3 BDI objects to any general terms and conditions of the Buyer.
- 1.4 All sales shall be non-exclusive and shall not confer any distribution or agency rights unless otherwise specifically agreed.

2. Offers, oral statements and amendments

- 2.1 All offers by BDI shall be subject to alterations without prior notice. Any offer of BDI shall be deemed withdrawn if it has not been accepted within the period there mentioned or within fourteen (14) days after its issue.
- 2.2 Any oral statement, addition or amendment to the General Sales Conditions and/or the documents of the related transaction shall only become valid if confirmed by BDI in writing.

3. Purchase orders

- 3.1 Any purchase order shall be subject to BDI's approval but, however, may be accepted impliedly by simply effecting delivery.
- 3.2 Any purchase order shall identify the country of final destination.
- 3.3 Products may normally be expected to be available, ready for shipment, within reasonable time from BDI's acceptance of a purchase order but delivery, however, remain subject to BDI's manufacturing capabilities.
- 3.4 Any purchase order shall be of a minimum amount of 2,500.- US dollars. The Buyer placing a purchase order below such minimum value shall pay to BDI a handling charge of 250.- US dollars.

4. Prices

- 4.1 All quotations of prices are in US \$ except as otherwise provided for in BDI's offer plus, even if not so mentioned in the respective offer, taxes or other charges as provided for by the applicable law.
- 4.2 The price payable by the Buyer for the products delivered shall be BDI's current price list which is effective at the date of delivery.

5. Payment

- 5.1 Payment shall become due at the date shown on the invoice or, if not mentioned, within 30 days net of the invoice's date.

5.2 Delayed payments shall bear interest of 1,5 % per month which shall be paid by the Buyer to BDI and Buyer shall additionally reimburse BDI all costs and damages associated with delayed payment, legal expenses included.

5.3 In no event shall the Buyer have the right to retain or set off payments unless BDI consented thereto in writing or a final and binding court decision confirms Buyer's claim.

5.4 If payment shall be effected by a letter of credit, BDI's Letter of Credit Policy shall apply.

6. Delivery and risk

6.1 Any delivery of BDI shall be "ex-works" (Incoterms 2010). However, on Buyer's request, BDI may provide, at Buyer's exclusive risk and cost, for transportation, legalization, inspection, and any handling charges on usual terms.

6.2 If BDI has notified Buyer that the Products ordered are ready to ship, Buyer shall take delivery without delay failing which all cost for storage and risk of loss or damage shall be for Buyer's account.

6.3 Products are normally available within the time frame given in the purchase order as accepted but, however, remain subject to manufacturing capabilities and schedules as well as transportation facilities.

6.4 On BDI's request Buyer shall furnish customs clearance or any other documentation pertinent to the transaction.

7. Warranty

7.1 All products delivered shall be in compliance with the applicable specifications for the respective period of their shelf life.

7.2 In case of products being instruments the warranty shall be twelve (12) months from the installation date at the ultimate customer's facility but in no event to exceed eighteen (18) months as of delivery to the Buyer. However, any instrument warranty shall only be given on the condition that the respective warranty and installation certificate of Becton was properly completed by Buyer.

7.3 The warranty shall neither cover products damaged in transit nor when the Buyer is in default of acceptance. Mishandling, repairs or alterations of products without BDI's authorization shall render any warranty void.

7.4 Any defects of products which would be apparent on reasonable inspection must be notified to BDI in writing within 72 (seventy-two) hours of reception of them by the Buyer failing which the products shall irrevocably be deemed accepted by the Buyer.

7.5 Save as expressly provided for in this clause BDI shall have no liability or responsibility to the Buyer in respect of defective products and all warranties regarding the quality, condition, durability, merchantability, fitness for purpose, conformity with samples, or likewise are hereby expressly excluded.

BECTON DICKINSON INTERNATIONAL
Branch of BECTON DICKINSON B.V. ("BDI")
Erembodegem Dorp 86
9320 - Erembodegem (Belgium)

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| <p>7.6 Any warranty claim shall be in writing, using BDI's applicable complaint form, and identify the defects and their presumable cause.</p> <p>8. Retention of title
BDI reserves title to all products supplied to Buyer until such time as payment for the relevant delivery has been fully received by BDI.</p> <p>9. Liability
9.1 Notwithstanding mandatory provisions of any applicable law, BDI shall neither be liable for indirect or consequential damages nor for any other damages unless the latter were caused by BDI's gross negligence or willfulness.
9.2 BDI shall in no event be liable for any damage if it cannot be excluded that a fault of the Buyer or of a person for whom the Buyer is responsible caused the damage including, not limited to events identified in section 7.3 above.</p> <p>10. Force Majeure
Neither party shall be liable for any breach of any agreement governed by the General Sales Conditions to the extent that this is caused by Force Majeure circumstances i.e. events which are beyond the reasonable control of the affected party, such as, but not limited to, acts of god, strikes, work to rule, governmental acts, fire, flood, bad weather conditions, war, shortfall of raw materials, energy, transportation, regardless of whether these were unforeseeable or not.</p> <p>11. Termination
Any agreement governed by the General Sales Conditions may be terminated by BDI with immediate effect if:</p> <ul style="list-style-type: none"> (i) Without requirement for BDI to any further notice, the Buyer fails to pay at due dates, or (ii) the Buyer is in material breach of any other term or condition of the General Sales Conditions including the related agreement and has not remedied such breach within fifteen (15) days of having been notified of such breach, or (iii) The Buyer shall be or become bankrupt or insolvent or if there are instituted by or against it proceedings in bankruptcy or under insolvency laws or for its reorganization, receivership, liquidation, dissolution or change of ownership. <p>12. Amendments
The General Sales Conditions including any related agreement shall not be changed or modified except by written agreement duly signed by BDI and Buyer.</p> | <p>13. Applicable Law and Jurisdiction
The General Sales Conditions and any related transaction shall be governed and construed in accordance with the material law of Belgium except its choice of law principles and the United Nations Convention on Contracts for the International Sale of Goods of April 11, 1980 and the exclusive venue of any dispute relating to the General Sales Conditions or the transactions contemplated herein shall be the Courts of Aalst.</p> <p>14. Anti-boycott legislation
Any agreement referring to the General Sales Conditions in conflict with US anti-boycott or any other applicable anti-boycott legislation shall be resolved first by doing the necessary to conform with the applicable anti-boycott provisions, including, not limited to, amending such agreement and, if that does not resolve the conflict, the violating agreement shall be null and void as if it had never come into existence.</p> <p>15. Severability
Should any part, term or provision of the General Sales Conditions be declared by any court to be or be accepted by the parties as being in conflict with the law or unenforceable the validity and enforceability of the remainder of the General Sales Conditions shall not be affected thereby. The offending part or provision shall be replaced by an enforceable and valid part or provision of which the economic intent is as far as possible the same.</p> <p>16. Trade Compliance
BD and 'customer' agree to comply fully with all laws governing trans-border sales, re-sales, shipments and transfers of Products, Original Product or End Product, including but not limited to the export control laws of the United States and of any other countries, to the extent that such laws are applicable to the parties or the Product, Original Product or End Product. In this regard:</p> <ul style="list-style-type: none"> - BD's obligation to supply Product or Original Product to 'customer' is contingent upon receiving any required governmental authorizations. Upon BD's request, 'customer' agrees that it will furnish all information and documentation necessary for BD to obtain such authorizations. - 'Customer' agrees to comply with all conditions and destination control statements set forth on the invoice, bill of lading or other documents accompanying the shipment of BD Products or Original Products. - 'Customer' affirms that it will not knowingly use, resell or distribute Product, Original Product or End Product, directly or indirectly, for the development, production or proliferation of weapons of mass destruction (nuclear, chemical, or biological) or missile delivery systems, and/or for terrorist activities. |
|---|--|

Annex

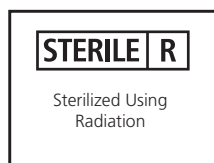
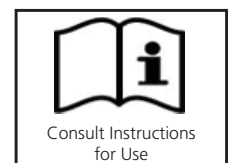
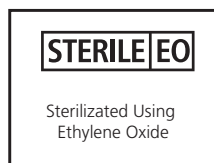
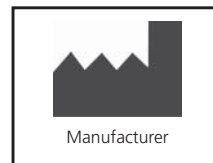
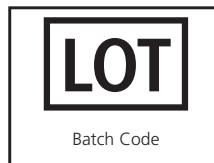
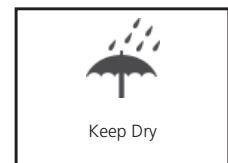
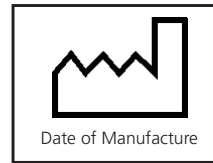
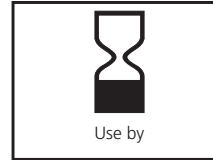
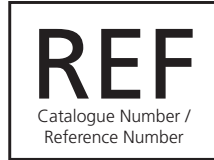
Quality Management with BD

Symbol Guidance

BD Medical - Medical Surgical Systems products are designed and manufactured to meet applicable international Quality Management System requirements in accordance with the European Medical Devices Directive 93/42/EEC (MDD) and FDA QSR where applicable.

Hence, all BD manufacturing sites hold a valid certification against the applicable international Quality Management Systems standards, such as ISO 13485:2012, EN ISO 9001:2008.

Likewise, all BD manufacturing sites are subject of periodic external as well as internal audits to ensure compliance with aforementioned Quality Management System requirements.



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