



# Precision in Preparation, Injection and Application

With B. Braun single-use syringes and needles



## PRECISION IN PREPARATION, INJECTION AND APPLICATION






For precise preparation, injection and application, B. Braun offers an extensive range of single-use syringes and needles.

The range of single-use syringes includes 2-piece and 3-piece syringes, fine dosage syringes, Insulin syringes, oral syringes, Original Perfusor® syringes as well as syringes with ENFit® and NRFit® connectors.


The range of single-use needles includes conventional hypodermic needles, needles for special indications, needles for pen injection systems as well as drug admixture and safety needles.

# Table of Content

## SYRINGES

	<b>2-Piece Syringes</b>	
	Injekt® Luer Solo	8
	Injekt® Luer Lock Solo	9
	Injekt® Luer Duo	10
	<b>2-Piece Fine Dosage Syringes</b>	
	Injekt®-F Luer Solo	12
	Injekt®-F Luer Duo	12
	Injekt®-H Luer Solo	13
	<b>3-Piece Syringes</b>	
	Omnifix® Luer Solo	16
	Omnifix® Luer Lock Solo	17
	Omnifix® Luer Duo	18
	<b>3-Piece Fine Dosage Syringes</b>	
	Omnifix®-H Luer Solo	21
	Omnifix®-F Luer Solo	22
	Omnifix®-F Luer Duo	22
	<b>3-Piece Syringes for Neuraxial and Regional Anesthesia</b>	
	Omnifix®-F Luer Lock Solo	23
	Omnican® F	24
	Omnican® F (in Polybag)	25
	<b>3-Piece Syringes</b>	
	Original Perfusor® Syringe 20 ml	27
	Original Perfusor® Syringe 50 ml	27
	<b>3-Piece Syringes for Neuraxial and Regional Anesthesia</b>	
	<b>3-Piece Syringes for the Loss of Resistance Technique (LOR) in Epidural Anesthesia</b>	
	Omnifix® Slip (Type NRFit®)	30
	Omnifix® Lock (Type NRFit®)	31
	Original Perfusor® Syringe 50 ml (Type NRFit®, Lock)	32
	<b>Oral Syringes</b>	
	<b>2-Piece Syringes for Oral Applications</b>	
	Exadoral®	37
	Exadoral® Straws and Bottle Adapter	38
	<b>3-Piece Syringes for Enteral Applications</b>	
	Enteral Syringes (Type ENFit®)	42
	Enteral Straws and Syringe Caps (Type ENFit®)	43

## SYRINGES

	<b>Insulin Syringes</b>	
	<b>2-Piece Insulin Syringes</b>	
	Injekt® 40 Solo	46
	Injekt® 40 Duo	46
	<b>3-Piece Insulin Syringes</b>	
	Omnifix® 40	47
	Omnifix® 100	47
	Omnican® 20	48
	Omnican® 40	48
	Omnican® 50	48
Omnican® 100	48	
Omnican® (in Polybag)	50	

## NEEDLES

	<b>Pen Needles</b>	
	Omnican® fine	53
	Omnican® fine Comfort	55
	<b>Conventional Hypodermic Needles</b>	
	Sterican®	57
	<b>Admixture Needles</b>	
	Sterican® MIX Blunt Fill Needle	66
	Sterican® MIX Semi-Blunt Fill Needle	67
	<b>Safety Needles</b>	
	Sterican® Safety Needle	69
	Product Details Sterican® Safety Needle	70
	Handling Instructions Sterican® Safety Needle	72

## SHARPS DISPOSAL CONTAINER

	<b>Medibox®</b>	75
	Handling Instructions Medibox®	76

# 2-Piece Syringes and 2-Piece Fine Dosage Syringes

Injekt®, Injekt®-F, Injekt®-H

With Injekt®, B. Braun offers a broad range of 2-piece single-use syringes with Luer and Luer Lock connectors in various sizes. In addition fine dosage syringes with and without Heparin graduation are included.





# Injekt® Luer Solo

2-Piece Syringes with Luer Connector



## PRODUCT FEATURES

- Green plunger
- Highly transparent barrel
- Black graduation
- Integrated plunger backstop (1)
- Graduation extended beyond nominal volume
- Luer connector
- Barrel made of polypropylene
- Plunger made of polyethylene
- Not manufactured with silicone oil, PVC, Latex and DEHP
- Sterile single packaging
- Box of 100 pcs.

## USER BENEFITS

- Green plunger for precise dosage
- Highly transparent barrel with black graduation for easy reading
- Safe plunger backstop to prevent unintentional plunger withdrawal

# Injekt® Luer Lock Solo

2-Piece Syringes with Luer Lock Connector



## PRODUCT FEATURES

- Green plunger
- Highly transparent barrel
- Black graduation
- Integrated plunger backstop (1)
- Graduation extended beyond nominal volume
- Luer Lock connector
- Barrel made of polypropylene
- Plunger made of polyethylene
- Not manufactured with silicone oil, PVC, Latex and DEHP
- Sterile single packaging
- Box of 100 pcs.

## USER BENEFITS

- Green plunger for precise dosage
- Highly transparent barrel with black graduation for easy reading
- Safe plunger backstop to prevent unintentional plunger withdrawal



Injekt® Luer Solo, manufactured according to ISO 7886-1

Size	Cone	Graduation	Total Graduated Capacity	Units Per Box	Code No. (REF)
2 ml	Centric	0.1 ml	3.0 ml	100 pcs.	4606027V
5 ml	Eccentric	0.2 ml	6.0 ml		4606051V
10 ml	Eccentric	0.5 ml	12.0 ml		4606108V
20 ml	Eccentric	1.0 ml	24.0 ml		4606205V



Injekt® Luer Lock Solo, manufactured according to ISO 7886-1

Size	Cone	Graduation	Total Graduated Capacity	Units Per Box	Code No. (REF)
2 ml	Centric	0.1 ml	3.0 ml	100 pcs.	4606701V
5 ml	Centric	0.2 ml	6.0 ml		4606710V
10 ml	Centric	0.5 ml	12.0 ml		4606728V
20 ml	Centric	1.0 ml	24.0 ml		4606736V

# Injekt® Luer Duo

2-Piece Syringes with Luer Connector and Detached Needle



## PRODUCT FEATURES

- Green plunger
- Highly transparent barrel
- Black graduation
- Integrated plunger backstop (1)
- Graduation extended beyond nominal volume
- Luer connector
- Barrel made of polypropylene
- Plunger made of polyethylene
- Not manufactured with silicone oil, PVC, Latex and DEHP
- Sterile single packaging
- Box of 100 pcs.
- Syringe with bi-packed needle

## USER BENEFITS

- Green plunger for precise dosage
- Highly transparent barrel with black graduation for easy reading
- Safe plunger backstop to prevent unintentional plunger withdrawal

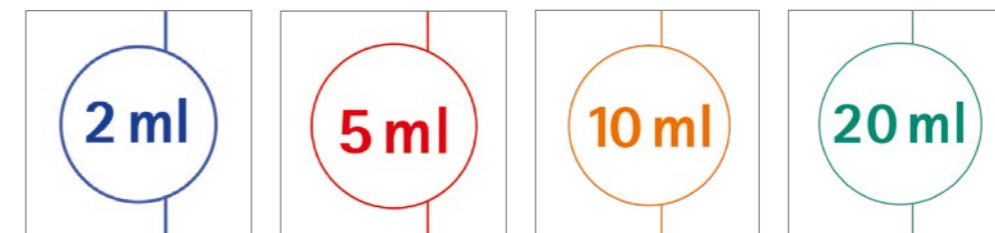
# Injekt®

Packaging Design

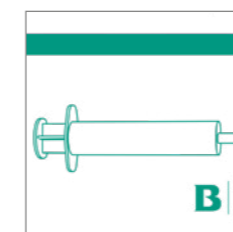


Injekt® Luer Duo, manufactured according to ISO 7886-1 and ISO 7864

Size	Cone	Graduation	Total Graduated Capacity	Gauge x Length (Needle)	Ø x Length (Needle)	Units Per Box	Code No. (REF)
2 ml	Centric	0.1 ml	3.0 ml	23 G x 1 1/4 "	0.6 x 30 mm	100 pcs.	4645022V
5 ml	Eccentric	0.2 ml	6.0 ml	22 G x 1 1/4 "	0.7 x 30 mm		4645057V
10 ml	Eccentric	0.5 ml	12.0 ml	21 G x 1 1/2 "	0.8 x 40 mm		4645103V
20 ml	Eccentric	1.0 ml	24.0 ml	21 G x 1 1/2 "	0.8 x 40 mm		4645200V



- Color-coded package for easier differentiation of versions



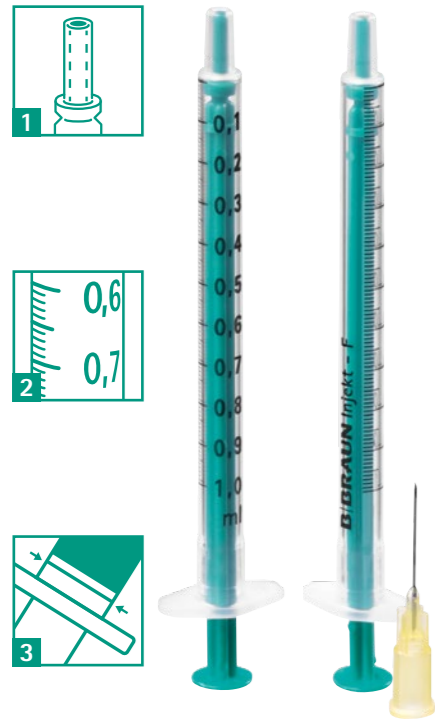
- Illustration of product for immediate identification



- Product name on all relevant sides for quick orientation

# Injekt®-F

2-Piece Fine Dosage Syringes with Luer Connector



## PRODUCT FEATURES

- Fine 0.01 ml graduation (2)
- Green plunger
- Highly transparent barrel
- Black graduation
- Plunger with displacement spike (1)
- Integrated plunger backstop (3)
- Luer connector
- Barrel made of polypropylene
- Plunger made of polyethylene
- Not manufactured with silicone oil, PVC, Latex and DEHP
- Sterile single packaging
- Box of 100 pcs.
- Syringe with and without bi-packed needle

## USER BENEFITS

- Fine 0.01 ml graduation for precise dosage of smallest volumes
- Highly transparent barrel with black graduation and green plunger for easy reading and exact dosing
- Safe plunger backstop to prevent unintentional plunger withdrawal
- Allows for minimal residual volume due to displacement spike

Injekt®-F Luer Solo, manufactured according to ISO 7886-1

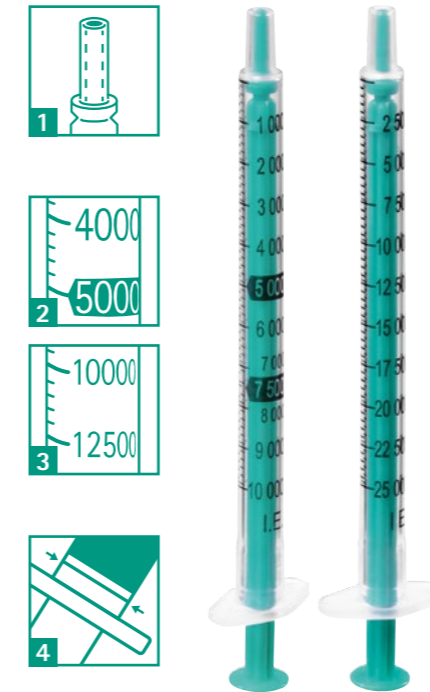
Size	Cone	Graduation	Total Graduated Capacity	Units Per Box	Code No. (REF)
1 ml	Centric	0.01 ml	1.0 ml	100 pcs.	9166017V

Injekt®-F Luer Duo, manufactured according to ISO 7886-1 and ISO 7864

Size	Cone	Graduation	Total Graduated Capacity	Gauge x Length (Needle)	Ø x Length (Needle)	Units Per Box	Code No. (REF)
1 ml	Centric	0.01 ml	1.0 ml	25 G x 5/8 "	0.5 x 16 mm	100 pcs.	9166033V

# Injekt®-H

2-Piece Fine Dosage Syringes with Heparin Graduation and Luer Connector



## PRODUCT FEATURES

- Plunger with displacement spike (1)
- 200 IU graduation for Heparin concentrations up to 10,000 IUs (2) or 500 IU graduation for concentrations up to 25,000 IUs (3)
- Additional 0.02 ml graduation
- Green plunger
- Highly transparent barrel
- Black graduation
- Integrated plunger backstop (4)
- Luer connector
- Barrel made of polypropylene
- Plunger made of polyethylene
- Not manufactured with silicone oil, PVC, Latex and DEHP
- Sterile single packaging
- Box of 100 pcs.

## USER BENEFITS

- 10,000 IU and 25,000 IU Heparin/ 1 ml graduation for precise administration of drugs without converting dosage volumes
- Highly transparent barrel with black graduation and green plunger for easy reading and exact dosing
- Safe plunger backstop to prevent unintentional plunger withdrawal
- Allows for minimal residual volume due to displacement spike

Injekt®-H Luer Solo, manufactured according to ISO 7886-1

Size	Cone	Graduation/ Scale Value	Total Graduated Capacity	Units Per Box	Code No. (REF)
1 ml	Centric	1.0 ml / 10,000 IU 0.02 ml / 200 IU	1.0 ml	100 pcs.	9166106V
		1.0 ml / 25,000 IU 0.02 ml / 500 IU			9166254V

# 3-Piece Syringes and 3-Piece Fine Dosage Syringes

Omnifix®, Omnifix®-F, Omnifix®-H, Omnican® F

With Omnifix®, B. Braun offers a broad range of 3-piece single-use syringes with Luer and Luer Lock connectors in various sizes. In addition fine dosage syringes with Luer and Luer Lock connectors as well as fine dosage syringes with Heparin graduation are included.





# Omnifix® Luer Solo

3-Piece Syringes with Luer Connector

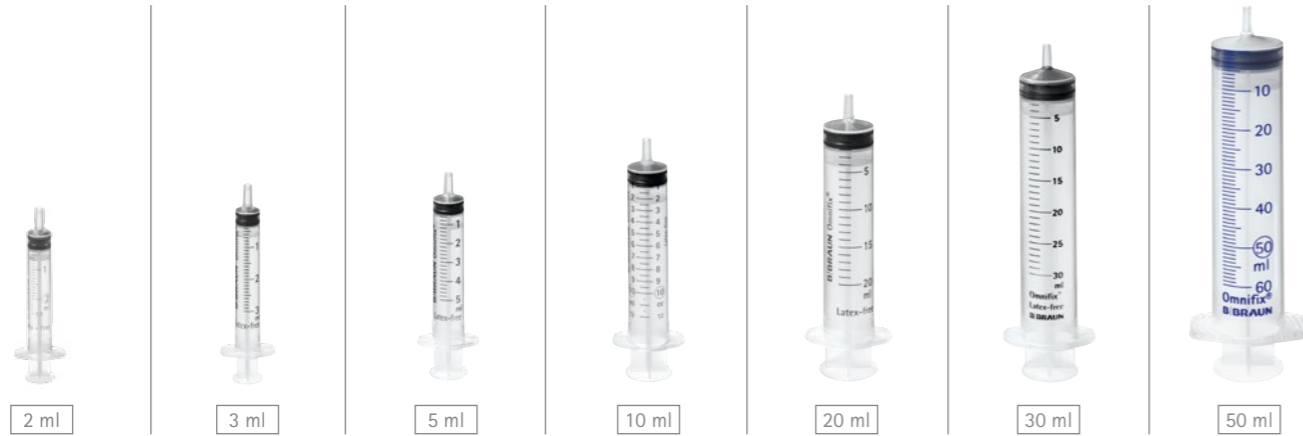


## PRODUCT FEATURES

- Highly transparent barrel
- High contrast graduation
- Integrated plunger backstop (1)
- Graduation extended beyond nominal volume for 2 ml, 10 ml and 50 ml
- Luer connector
- Barrel and plunger made of polypropylene
- Rubber piston with double sealing ring made of polyisoprene
- Not manufactured with PVC, Latex and DEHP
- Sterile single packaging
- Box of 100 pcs.

## USER BENEFITS

- Highly transparent barrel with high contrast graduation for easy reading and exact dosing
- Rubber piston with double sealing ring allows slow aspiration and injection
- Safe plunger backstop to prevent unintentional plunger withdrawal



Omnifix® Luer Solo, manufactured according to ISO 7886-1

Size	Cone	Graduation	Total Graduated Capacity	Units Per Box	Code No. (REF)
2 ml	Centric	0.1 ml	2.5 ml	100 pcs.	4616022V
3 ml	Centric	0.1 ml	3.0 ml		4616025V
5 ml	Eccentric	0.2 ml	5.0 ml		4616057V
10 ml	Eccentric	0.5 ml	12.0 ml		4616103V
20 ml	Eccentric	1.0 ml	20.0 ml		4616200V
30 ml	Eccentric	1.0 ml	30.0 ml		4616308F
50 ml	Eccentric	1.0 ml	60.0 ml		4616502F

# Omnifix® Luer Lock Solo

3-Piece Syringes with Luer Lock Connector

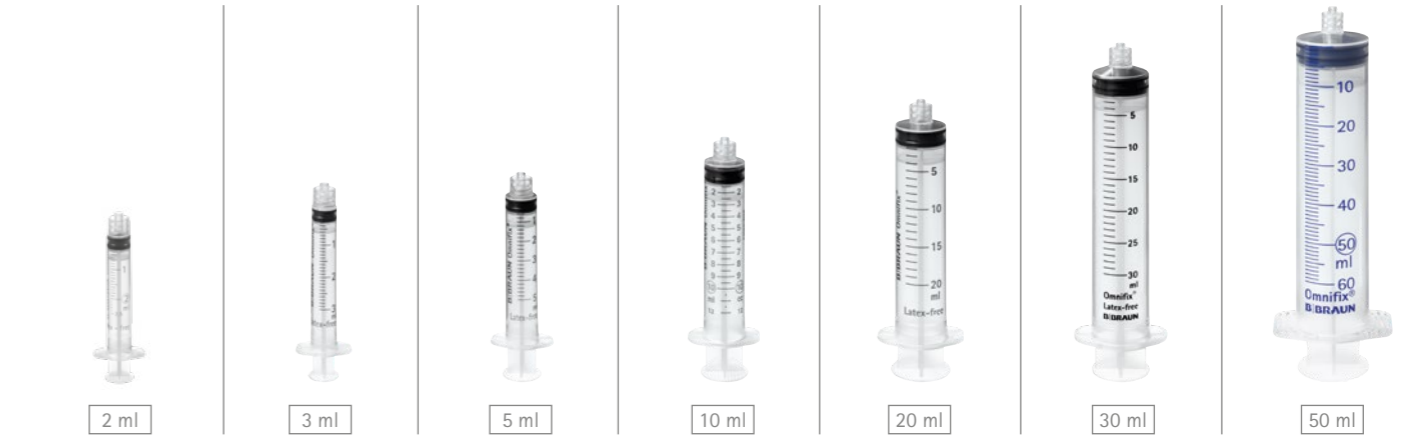


## PRODUCT FEATURES

- Highly transparent barrel
- High contrast graduation
- Integrated plunger backstop (1)
- Graduation extended beyond nominal volume for 2 ml, 10 ml and 50 ml
- Luer Lock connector
- Barrel and plunger made of polypropylene
- Rubber piston with double sealing ring made of polyisoprene
- Not manufactured with PVC, Latex and DEHP
- Sterile single packaging
- Box of 100 pcs.

## USER BENEFITS

- Highly transparent barrel with high contrast graduation for easy reading and exact dosing
- Rubber piston with double sealing ring allows slow aspiration and injection
- Safe plunger backstop to prevent unintentional plunger withdrawal
- Released for using in combination with compatible pump sizes 2 to 50 ml syringes with Luer Lock cone



Omnifix® Luer Lock Solo, manufactured according to ISO 7886-1 and ISO 7886-2

Size	Cone	Graduation	Total Graduated Capacity	Units Per Box	Code No. (REF)
2 ml	Centric	0.1 ml	2.5 ml	100 pcs.	4617029V
3 ml	Centric	0.1 ml	3.0 ml		4617022V
5 ml	Centric	0.2 ml	5.0 ml		4617053V
10 ml	Centric	0.5 ml	12.0 ml		4617100V
20 ml	Centric	1.0 ml	20.0 ml		4617207V
30 ml	Centric	1.0 ml	30.0 ml		4617304F
50 ml	Centric	1.0 ml	60.0 ml		4617509F

# Omnifix® Luer Duo

3-Piece Syringes with Luer Connector and Detached Needle



## PRODUCT FEATURES

- Highly transparent barrel
- High contrast black graduation
- Integrated plunger backstop (1)
- Graduation extended beyond nominal volume for 2 ml and 10 ml
- Luer connector
- Barrel and plunger made of polypropylene
- Rubber piston with double sealing ring made of polyisoprene
- Not manufactured with PVC, Latex and DEHP
- Sterile single packaging
- Box of 100 pcs.
- Syringe with bi-packed needle

## USER BENEFITS

- Highly transparent barrel with high contrast black graduation for easy reading and exact dosing
- Rubber piston with double sealing ring allows slow aspiration and injection as well as precise dosing of small volumes
- Safe plunger backstop to prevent unintentional plunger withdrawal

# Omnifix®

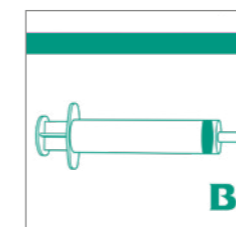
Packaging Design



▪ Color-coded package for easier differentiation of versions

Omnifix® Luer Duo, manufactured according to ISO 7886-1 and ISO 7864

Size	Cone	Graduation	Total Graduated Capacity	Gauge x Length (Needle)	Ø x Length (Needle)	Units Per Box	Code No. (REF)
2 ml	Centric	0.1 ml	2.5 ml	23 G x 1 ¼ "	0.6 x 30 mm	100 pcs.	4643100V
3 ml	Centric	0.1 ml	3.0 ml	23 G x 1 ¼ "	0.6 x 30 mm		4643102V
5 ml	Eccentric	0.2 ml	5.0 ml	22 G x 1 ¼ "	0.7 x 30 mm		4643119V
10 ml	Eccentric	0.5 ml	12.0 ml	21 G x 1 ½ "	0.8 x 40 mm		4643127V
20 ml	Eccentric	1.0 ml	20.0 ml	21 G x 1 ½ "	0.8 x 40 mm		4643135V



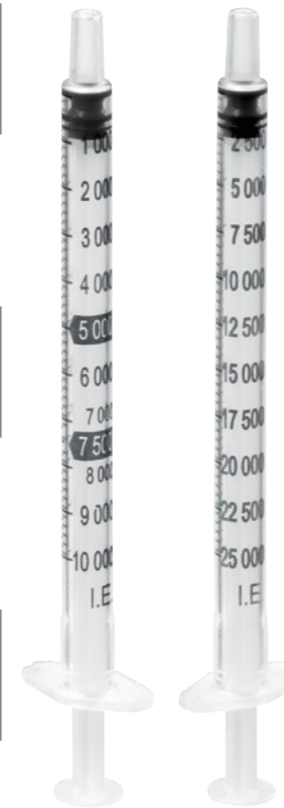
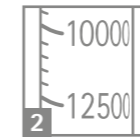
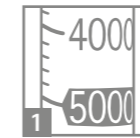
▪ Illustration of product for immediate identification



▪ Product name on all relevant sides for quick orientation

# Omnifix®-H Luer Solo

3-Piece Fine Dosage Syringes with Heparin Graduation and Luer Connector



## PRODUCT FEATURES

- 200 IU graduation for Heparin concentrations up to 10,000 IUs (1) or 500 IU graduation for concentrations up to 25,000 IUs (2)
- Additional fine 0.02 ml graduation
- Highly transparent barrel
- High contrast black graduation
- Integrated plunger backstop (3)
- Barrel made of polypropylene
- Plunger made of polystyrene
- Rubber piston with double sealing ring made of polyisoprene
- Not manufactured with PVC, Latex and DEHP
- Sterile single packaging
- Box of 100 pcs.

## USER BENEFITS

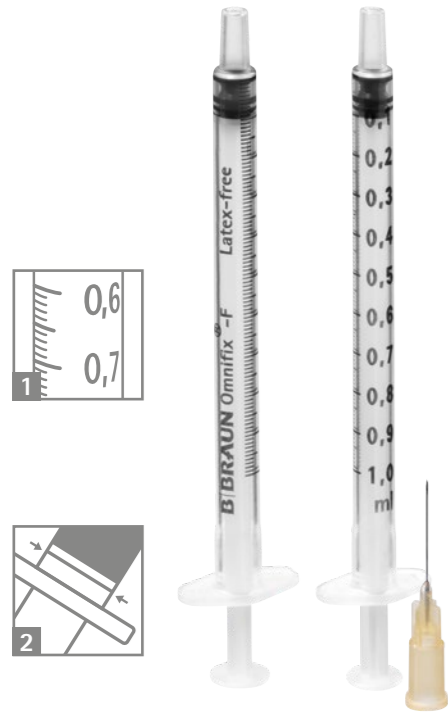
- 10,000 IU / 1 ml or 25,000 IU / 1 ml Heparin graduation for precise administration of drugs without converting dosage volumes
- Highly transparent barrel with high contrast black graduation for easy reading and exact dosing
- Rubber piston with double sealing ring allows slow aspiration and injection
- Safe plunger backstop to prevent unintentional plunger withdrawal

Omnifix®-H Luer Solo, manufactured according to ISO 7886-1

Size	Cone	Graduation/Scale Value	Total Graduated Capacity	Units Per Box	Code No. (REF)
1 ml	Centric	1.0 ml / 10,000 IU	1.0 ml	100 pcs.	9162909V
		0.02 ml / 200 IU			
		1.0 ml / 25,000 IU			9162607V
		0.02 ml / 500 IU			

# Omnifix®-F Luer

3-Piece Fine Dosage Syringes with Luer Connector



## PRODUCT FEATURES

- Fine 0.01 ml graduation (1)
- Highly transparent barrel
- High contrast black graduation
- Integrated plunger backstop (2)
- Luer connector
- Barrel made of polypropylene
- Plunger made of polystyrene
- Rubber piston with double sealing ring made of polyisoprene
- Not manufactured with PVC, Latex and DEHP
- Sterile single packaging
- Box of 100 pcs.
- Syringe with and without bi-packed needle

## USER BENEFITS

- Fine 0.01 ml graduation for precise dosage of smallest volumes
- Highly transparent barrel with high contrast black graduation for easy reading and exact dosing
- Rubber piston with double sealing ring allows slow aspiration and injection
- Safe plunger backstop to prevent unintentional plunger withdrawal

Omnifix®-F Luer Solo, manufactured according to ISO 7886-1

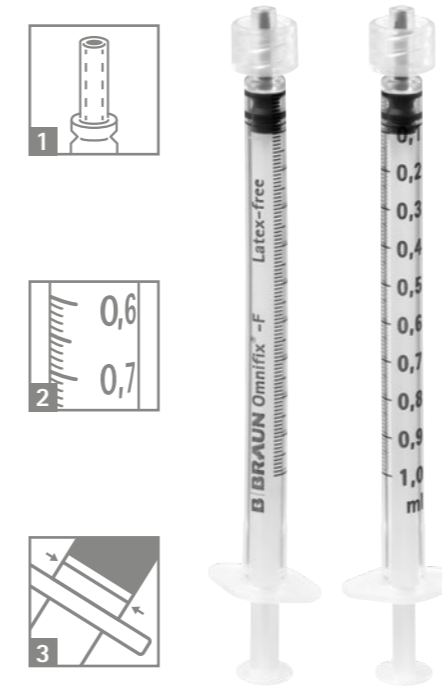
Size	Cone	Graduation	Total Graduated Capacity	Units Per Box	Code No. (REF)
1 ml	Centric	0.01 ml	1.0 ml	100 pcs.	9161406V

Omnifix®-F Luer Duo, manufactured according to ISO 7886-1 and ISO 7864

Size	Cone	Graduation	Total Graduated Capacity	Gauge x Length (Needle)	Ø x Length (Needle)	Units Per Box	Code No. (REF)
1 ml	Centric	0.01 ml	1.0 ml	25 G x 5/8"	0.5 x 16 mm	100 pcs.	9161465V

# Omnifix®-F Luer Lock Solo (Type LDS)

3-Piece Fine Dosage Syringes with Luer Lock Connector



## PRODUCT FEATURES

- Low Dead Space (LDS): Plunger with displacement spike (1)
- Fine 0.01 ml graduation (2)
- Highly transparent barrel
- High contrast black graduation
- Integrated plunger backstop (3)
- Luer Lock connector
- Barrel made of polypropylene
- Plunger made of polystyrene
- Rubber piston with double sealing ring made of polyisoprene
- Not manufactured with PVC, Latex and DEHP
- Sterile single packaging
- Box of 100 pcs.

## USER BENEFITS

- Fine 0.01 ml graduation for precise dosage of smallest volumes
- Highly transparent barrel with high contrast black graduation for easy reading
- Rubber piston with double sealing ring allows slow aspiration and injection
- Safe plunger backstop to prevent unintentional plunger withdrawal
- Type LDS allows for minimal residual volume due to displacement spike

Omnifix®-F Luer Lock Solo (Type LDS), manufactured according to ISO 7886-1

Size	Cone	Graduation	Total Graduated Capacity	Units Per Box	Code No. (REF)
1 ml	Centric	0.01 ml	1.0 ml	100 pcs.	9167006V



# Omnican® F

## 3-Piece Fine Dosage Syringes with Integrated Needle

### Single Blister Packaging



#### PRODUCT FEATURES

- Integrated needle
- Fine 0.01 ml graduation (1)
- Transparent protection cap
- Highly transparent barrel
- High contrast black graduation
- Integrated plunger backstop (2)
- Barrel made of polypropylene
- Plunger made of polystyrene
- Rubber piston with double sealing ring made of polyisoprene
- Minimized residual volume
- Not manufactured with PVC, Latex and DEHP
- Sterile single packaging
- Box of 100 pcs.

#### USER BENEFITS

- Minimized drug loss due to integrated fine needle
- Fine 0.01 ml graduation for precise dosage of minimal quantities
- Highly transparent barrel with high-contrast black graduation for easy reading
- Safe plunger backstop to prevent unintentional plunger withdrawal

Omnican® F with integrated needle, manufactured according to ISO 7886-1, ISO 7864 and ISO 8537

Size	Cone	Graduation	Total Graduated Capacity	Gauge x Length (Needle)	Ø x Length (Needle)	Units Per Box	Code No. (REF)
1 ml	Centric	0.01 ml	1.0 ml	30 G x 1/2 "	0.3 x 12 mm	100 pcs.	9161502S

# Omnican® F

## 3-Piece Fine Dosage Syringes with Integrated Needle

### Polybag



#### USER BENEFITS

- Minimized drug loss due to integrated fine needle
- Fine 0.01 ml graduation for precise dosage of minimal quantities
- Highly transparent barrel with high-contrast black graduation for easy reading
- Safe plunger backstop to prevent unintentional plunger withdrawal
- The interior of each syringe is kept sterile on both ends as long as protective caps have not been removed
- 10 pcs. per bag
- Packed up to 100 pcs. per box



Omnican® F with integrated needle, manufactured according to ISO 7886-1, ISO 7864 and ISO 8537

Size	Cone	Graduation	Total Graduated Capacity	Gauge x Length (Needle)	Ø x Length (Needle)	Units Per Box	Code No. (REF)
1 ml	Centric	0.01 ml	1.0 ml	30 G x 1/2 "	0.3 x 12 mm	100 pcs.	9161502

# Original Perfusor® Syringe

3-Piece Syringes for Use with Perfusor® Syringe Pumps



## PRODUCT FEATURES

- Highly transparent barrel
- High contrast graduation
- Integrated plunger backstop (1)
- Barrel and plunger made of polypropylene
- Luer Lock connector
- Not manufactured with PVC, Latex and DEHP
- Sterile single packaging
- Rubber piston with double sealing ring made of bromobutyl (20 ml) and polyisoprene (50 ml)
- Syringe with and without bi-packed needle

## USER BENEFITS

- Released to be used for long term infusions by compatible infusion pumps
- High contrast graduation for easy reading
- Versions with and without aspiration or filter needle
- Rubber piston with double sealing ring allows slow aspiration and injection
- Safe plunger backstop to prevent unintentional plunger withdrawal
- UV-protect syringe, 50 ml (orange colored barrel) for light sensitive medications



Original Perfusor® Syringe 20 ml, manufactured according to ISO 7886-1 and ISO 7886-2

Description (Needle 1.7 x 2.0 mm)	Size	Cone	Graduation	Total Graduated Capacity	Units Per Box	Code No. (REF)
Without Aspiration Needle	20 ml	Centric	1.0 ml	20 ml	50 pcs.	8728615
Aspiration Needle	20 ml					8728623

Original Perfusor® Syringe 50 ml, manufactured according to ISO 7886-1 and ISO 7886-2

Description (Needle 1.7 x 2.0 mm)	Size	Cone	Graduation	Total Graduated Capacity	Units Per Box	Code No. (REF)
Without Aspiration Needle	50 ml	Centric	1.0 ml	50 ml	100 pcs.	8728844F-06
Aspiration Needle	50 ml					8728810F -06
Aspiration Needle with 15 µm particle filter	50 ml					8728852F-06
Aspiration Needle with 15 µm particle filter, light protection up to 520 nm	50 ml					8728861F-06

\* Aspiration needle is bi-packed in the syringe blister packaging.

# Omnifix<sup>®</sup>, Original Perfusor<sup>®</sup> Syringes & Accessories (Type NRFit<sup>®</sup>)

3-Piece Syringes & Accessories with NRFit<sup>®</sup> Connector for Neuraxial and Regional Anesthesia Applications



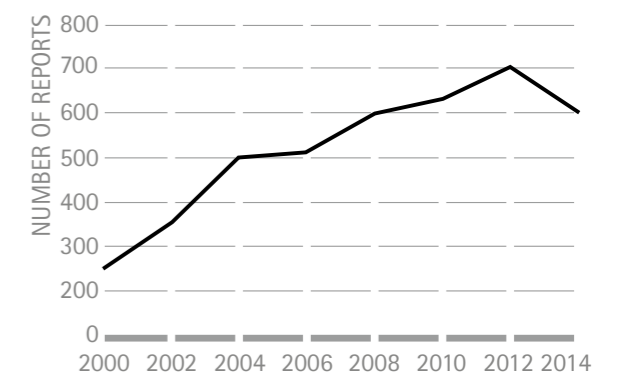
Medical device connectors for Neuraxial & Regional Anesthesia applications are changing to meet international design standards.

## Medication errors during Regional Anesthesia procedures

The universally compatible Luer connector has been identified as a key element in 'wrong route' medication errors. Luer connectors are widely used for delivery of infusions. Literature shows that any patient having multiple access systems in place are exposed to higher risks of misconnections.<sup>1</sup>

The increasing sensitivity to medication errors in clinical settings is visible in an increasing number of publications on this subject in Pubmed between 2000 and 2014 (Fig. 1).

FIGURE 1



## Enhancing patient safety with NRFit<sup>®</sup>

To reduce the risk of wrong route medication errors the International Organization for Standardization (ISO) has developed standards for small-bore connectors, one being in the field of Neuraxial and Regional Anesthesia (ISO 80369-6). The name that will be used to identify devices that comply with the ISO 80369-6 standard is:

## ISO 80369-6 in detail

The ISO Standard 'specifies requirements for small-bore connectors intended to be used for connections in Neuraxial applications. Neuraxial applications involve the use of medical devices intended to administer medications to neuraxial sites, wound infiltration anesthesia delivery, and other Regional Anesthesia procedures or to monitor or remove cerebro-spinal fluid for therapeutic or diagnostic purposes.'<sup>2</sup>

**NRFit<sup>®</sup>**

## LITERATURE

1. Kress R. Townley, Jason Lane, Robyn Packer, and Rajnish K. Gupta. Unintentional Infusion of Phenylephrine into the Epidural Space. A&A Case Rep. 2016 Mar 1; 6(5):124-6
2. <https://www.iso.org/standard/50734.html> (2017-05-23)



# Omnifix® Slip (Type NRFit®)

3-Piece Syringes with NRFit® Slip Connector for Neuraxial and Regional Anesthesia Applications



## PRODUCT FEATURES

- 1 ml: Plunger with displacement spike (1)
- Yellow plunger
- Highly transparent barrel
- High contrast black graduation
- Barrel and plunger made of polypropylene
- Rubber piston with double sealing ring made of polyisoprene
- NRFit® Slip connector
- Not manufactured with PVC, Latex and DEHP
- Sterile single packaging
- Box of 100 pcs.

## USER BENEFITS

- Designed to reduce risks of wrong route medication errors and particulate contamination from the very beginning in Neuraxial and Regional Anesthesia procedures
- The yellow product color coding of syringes helps to visually differentiate between regular and NRFit® dedicated equipment
- High contrast black graduation for easy reading
- Safe plunger backstop to prevent unintentional plunger withdrawal

# Omnifix® Lock (Type NRFit®)

3-Piece Syringes with NRFit® Lock Connector for Neuraxial and Regional Anesthesia Applications



## PRODUCT FEATURES

- Yellow plunger
- Highly transparent barrel
- High contrast black graduation
- Barrel and plunger made of polypropylene
- Rubber piston with double sealing ring made of polyisoprene
- NRFit® Lock connector
- Not manufactured with PVC, Latex and DEHP
- Sterile single packaging
- Box of 100 pcs.

## USER BENEFITS

- Designed to reduce risks of wrong route medication errors and particulate contamination from the very beginning in Neuraxial and Regional Anesthesia procedures
- The yellow product color coding of syringes helps to visually differentiate between regular and NRFit® dedicated equipment
- Omnifix® 3-20 ml and 50 ml Lock versions can be used in combination with compatible syringe pumps
- High contrast black graduation for easy reading
- Safe plunger backstop to prevent unintentional plunger withdrawal



Omnifix® Slip (Type NRFit®), manufactured according to ISO 7886-1 and ISO 80369-6

Size	Cone	Graduation	Total Graduated Capacity	Units Per Box	Code No. (REF)
1 ml	Centric	0.010 ml	1.0 ml	100 pcs.	9164001
3 ml	Centric	0.1 ml	3.0 ml		4616003
5 ml	Centric	0.2 ml	5.0 ml		4616005
10 ml	Centric	0.5 ml	10.0 ml		4616014
20 ml	Centric	1.0 ml	20.0 ml		4616021

Omnifix® Lock (Type NRFit®), manufactured according to ISO 7886-1, ISO 7886-2 and ISO 80369-6

Size	Cone	Graduation	Total Graduated Capacity	Units Per Box	Code No. (REF)
3 ml	Centric	0.1 ml	3.0 ml	100 pcs.	4617003
5 ml	Centric	0.2 ml	5.0 ml		4617006
10 ml	Centric	0.5 ml	10.0 ml		4617014
20 ml	Centric	1.0 ml	20.0 ml		4617021
50 ml	Centric	1.0 ml	50.0 ml		4617508F-01



# Original Perfusor® Syringes & Accessories (Type NRFit®)

3-Piece Syringes & Accessories with NRFit® Connector for Neuraxial and Regional Anesthesia Applications



50 ml

Original Perfusor® Syringe 50 ml (Type NRFit®, Lock), manufactured according to ISO 7886-1, ISO 7886-2 and ISO 80369-6

Size	Cone	Graduation	Total Graduated Capacity	Units Per Box	Code No. (REF)
50 ml	Centric	1.0 ml	50.0 ml	100 pcs.	8728845F-01



Closure Cap NRFit®, manufactured according to ISO 80369-6

Description	Units Per Box	Code No. (REF)
Closure Cap NRFit®	4 pcs.	4517501N



# Perifix® LOR Syringe (Type NRFit®)

3-Piece Syringes with NRFit® Connector for the Loss of Resistance Technique (LOR) in Epidural Anesthesia



8 ml

## PRODUCT FEATURES

- Yellow plunger
- Highly transparent barrel
- High contrast black graduation
- Barrel and plunger made of polypropylene
- Piston made of TPE (Thermoplastic elastomer)
- NRFit® Slip and NRFit® Lock connector
- Not manufactured with PVC, Latex and DEHP
- Sterile single packaging
- Box of 25 pcs.

## USER BENEFITS

- Designed to reduce risks of wrong route medication errors and particulate contamination from the very beginning in Neuraxial and Regional Anesthesia procedures
- The yellow product color coding of syringes helps to visually differentiate between regular and NRFit® dedicated equipment
- Clear identification of epidural space
- Suitable for air and saline application
- Easy-glide plunger with excellent glide characteristics
- Parabolic graduation markings prevent confusion with conventional syringes



8 ml

8 ml

Perifix® LOR Syringes (Type NRFit®), manufactured according to ISO 7886-1 and ISO 80369-6

Description	Size	Cone	Total Graduated Capacity	Units Per Box	Code No. (REF)
Perifix® LOR, NRFit® Slip	8 ml	Centric	8.0 ml	25 pcs.	4637110
Perifix® LOR, NRFit® Lock					4638110

In order to obtain more information about our B. Braun products with NRFit® connectors, simply scan the QR code with the camera of your smartphone and a suitable reader application and get to the website.



# Perifix® LOR Syringe

3-Piece Syringes for the Loss of Resistance Technique (LOR) in Epidural Anesthesia



8 ml

## PRODUCT FEATURES

- Green plunger
- Barrel and plunger made of polypropylene
- Piston made of TPE (Thermoplastic elastomer)
- Luer and Luer Lock connector
- Not manufactured with PVC, Latex and DEHP
- Sterile single packaging
- Box of 25 pcs.

## USER BENEFITS

- Clear identification of epidural space
- Suitable for air and saline application
- Easy-glide plunger with excellent glide characteristics
- Parabolic graduation markings prevent confusion with conventional syringes



8 ml

8 ml

Perifix® LOR Syringes, manufactured according to ISO 7886-1

Description	Size	Cone	Total Graduated Capacity	Units Per Box	Code No. (REF)
Perifix® LOR, Luer	8 ml	Centric	8.0 ml	25 pcs.	4637100
Perifix® LOR, Luer Lock					4638107

# Exadoral®

## 2-Piece Syringes for Oral Applications



### PRODUCT FEATURES

- Purple plunger
- Centric oral cone
- Highly transparent barrel
- High contrast black graduation
- Non-luer tip design
- Integrated plunger backstop (1)
- Barrel made of polypropylene
- Plunger made of polyethylene
- Not manufactured with silicone oil, PVC, Latex and DEHP
- Sterile single packaging
- Box of 100 pcs.

### USER BENEFITS

- Purple plunger for visual differentiation from conventional and NRFit® syringes
- Due to a centric cone design, the Exadoral® syringes are not compatible with intravenous connectors to prevent inadvertent intravenous connection
- Non-luer tip design
- For withdrawal of liquid medication
- High contrast black graduation for easy reading and precise dosing



Exadoral®, manufactured according to ISO 7886-1, syringes with oral connector (non-luer tip design)

Size	Cone	Graduation	Total Graduated Capacity	Units Per Box	Code No. (REF)
1 ml	Oral connector, centric	0.01 ml	1.0 ml	100 pcs.	4608661
2 ml	Oral connector, centric	0.10 ml	3.0 ml		4608662
5 ml	Oral connector, centric	0.20 ml	5.0 ml		4608660
10 ml	Oral connector, centric	0.50 ml	10.0 ml		4608667
20 ml	Oral connector, centric	1.00 ml	20.0 ml		4608663

# Exadoral®

## Straws and Bottle Adapter



Exadoral® Straws and Bottle Adapter, manufactured according to ISO 80369-6

Description	Units Per Box	Code No. (REF)
Exadoral® Straw, 10 cm	20 pcs.	4608670
Exadoral® Straw, 17 cm		4608671
Exadoral® Bottle Adapter, ø 24 mm		4608672
Exadoral® Bottle Adapter, ø 28 mm		4608673



# Enteral Syringes & Devices (Type ENFit®)

3-Piece Syringes & Devices with ENFit® Connector for Enteral Applications



## The new international standard design for enteral application systems

B. Braun has a long experience in providing innovative solutions for clinical nutrition. As a leader in safe infusion therapy, B. Braun is continuously making efforts to improve safety in clinical nutrition application. Our comprehensive portfolio offers optimized support for the nutrition therapy, including both enteral and parenteral applications, while minimizing the risk of misconnections between enteral and parenteral routes.

With the introduction of the ENPlus connector at the nutrition end of application sets (ISO 18250), B. Braun has made an important step to improve safety of enteral and parenteral applications.

### Enhancing Patient Safety for Enteral Nutrition

To enhance patient safety, B. Braun has been collaborating with the Global Enteral Device Supplier Association (GEDSA) to support the introduction and adoption of a new ISO standard for small-bore connectors:

## ENFit®

The new ENFit® standard design for enteral application systems is defined in the ISO 80369-3 series, establishing ENFit® as the new international standard design for enteral patient-access connections.

The ENFit® connector system is specifically designed for enteral nutrition administration devices at the patient

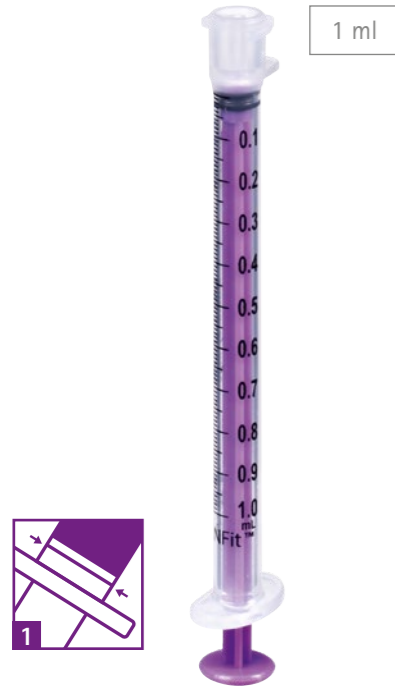


end, promoting enhanced patient safety and preventing unintentional connections between enteral and intravenous systems. The female ENFit® connector at the patient-end of the administration set will only connect to the male patient-access feeding tube port. Enteral syringes with a female ENFit® connector will only fit to second access stopcocks on application sets or feeding tubes with a male ENFit® connector.

Whereas the new ENFit® standard connectors will replace the existing enteral connectors at the patient end of enteral application sets, the ENPlus connection system will remain the design standard at the nutrition end. B. Braun will provide enteral administration sets featuring both connection systems ENPlus and ENFit®.

# Enteral syringes (Type ENFit®)

3-Piece Syringes with ENFit® Connector for Enteral Applications



## PRODUCT FEATURES

- Enteral syringe with female ENFit® connector
- Purple plunger
- Highly transparent barrel
- High contrast black graduation
- Integrated plunger backstop (1)
- Only connectable to male ENFit® connector (IV incompatible)
- Barrel and plunger made of polypropylene
- Not manufactured with PVC, Latex, DEHP and BPA
- Sterile single packaging

## USER BENEFITS

- Purple plunger for visual differentiation from conventional and NRFit® syringes
- Purple color coding allows faster identification of enteral devices
- Dedicated enteral connectors to minimize risk of misconnections
- „Lock and Key“ feature ensures secure connection
- Highly transparent barrel with high contrast black graduation for easy reading and precise dosing
- Low dose tip on the 1ml, 2.5ml and 5ml syringe sizes

# Enteral Straw and Syringe Cap (Type ENFit®)

Accessories



Enteral straws and syringe caps (Type ENFit®), manufactured according to ISO 80369-3

Description	Units Per Box	Code No. (REF)
Enteral Straw with ENFit® connector - 10 cm	5 pcs.	4616009
Enteral Syringe Cap with ENFit® connector	300 pcs.	4616020



Enteral syringes (Type ENFit®), manufactured according to ISO 7886-1 and ISO 80369-3

Size	Cone	Graduation	Total Graduated Capacity	Units Per Box	Code No. (REF)
1 ml	Centric	0.01 ml	1.0 ml	200 pcs.	4616024-01
2.5 ml	Eccentric	0.10 ml	2.5 ml		4616025-01
5 ml	Eccentric	0.10 ml	5.0 ml		4616026-01
10 ml	Eccentric	0.10 ml	10.0 ml	100 pcs.	4616027-01
20 ml	Eccentric	1.00 ml	20.0 ml		4616028-01
60 ml	Eccentric	1.00 ml	60.0 ml		4616029-01

# Injekt<sup>®</sup>, Omnifix<sup>®</sup> and Omnican<sup>®</sup> Insulin Syringes

## 2-Piece and 3-Piece Insulin Syringes

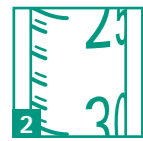
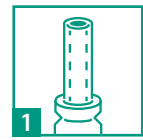
For Insulin applications, B. Braun offers a wide range of 2-piece and 3-piece Insulin syringes. The range includes 2-piece Injekt<sup>®</sup> Insulin syringes, 3-piece Omnifix<sup>®</sup> Insulin syringes and 3-piece Omnican<sup>®</sup> Insulin syringes with integrated needle.





# Injekt® Insulin Syringes

2-Piece Insulin Syringes for U-40 Insulin with Luer Connector



## PRODUCT FEATURES

- Plunger with displacement spike (1)
- Fine 1 IU graduation for U-40 Insulin (2)
- Green plunger
- Highly transparent barrel
- Red graduation
- Integrated plunger backstop (3)
- Barrel made of polypropylene
- Plunger made of polyethylene
- Versions with and without detached needle
- Not manufactured with silicone oil, Latex, PVC and DEHP
- Sterile single packaging
- Box of 100 pcs.

## USER BENEFITS

- Highly transparent barrel with red graduation and green plunger for easy reading and exact dosing
- Safe plunger backstop to prevent unintentional plunger withdrawal
- Allows for reduced residual volume and Insulin loss

IU = Insulin Unit

Injekt® 40 Solo for U-40 Insulin, manufactured according to ISO 8537

U-40

Size	Graduation / Scale Value	Total Graduated Capacity	Units Per Box	Code No. (REF)
1 ml	for Insulin U-40 with scale value 1 IU	1.0 ml	100 pcs.	9166408V

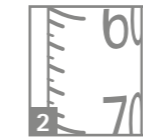
Injekt® 40 Duo for U-40 Insulin and detached needle, manufactured according to ISO 8537 and ISO 7864

U-40

Size	Graduation / Scale Value	Total Graduated Capacity	Gauge x Length (Needle)	Ø x Length (Needle)	Units Per Box	Code No. (REF)
1 ml	for Insulin U-40 with scale value 1 IU	1.0 ml	26 G x ½ "	0.45 x 12 mm	100 pcs.	9166432V

# Omnifix® Insulin Syringes

3-Piece Insulin Syringes for U-40 or U-100 Insulin with Luer Connector



## PRODUCT FEATURES

- Fine 1 IU graduation for U-40 Insulin (Omnifix® 40) (1) and 2 IU graduation for U-100 Insulin (Omnifix® 100) (2)
- Highly transparent barrel
- High contrast graduation
- Integrated plunger backstop (3)
- Rubber piston with double sealing ring made of polyisoprene
- Barrel made of polypropylene
- Plunger made of polystyrene
- Versions with and without detached needle
- Not manufactured with Latex, PVC and DEHP
- Sterile single packaging
- Box of 100 pcs.

## USER BENEFITS

- Highly transparent barrel with high-contrast graduation for easy reading and exact dosing
- Safe plunger backstop to prevent unintentional plunger withdrawal

IU = Insulin Unit

Omnifix® 40 for U-40 Insulin with Luer connector, manufactured according to ISO 8537 and ISO 7864

U-40

Size	Graduation / Scale Value	Total Graduated Capacity	Ø x Length (Needle)	Units Per Box	Code No. (REF)
1 ml	for Insulin U-40 with scale value 1 IU	1.0 ml	-	100 pcs.	9161309V
1 ml	for Insulin U-40 with scale value 1 IU	1.0 ml	0.45 x 12 mm		9161333V

Omnifix® 100 for U-100 Insulin with Luer connector, manufactured according to ISO 8537 and ISO 7864

U-100

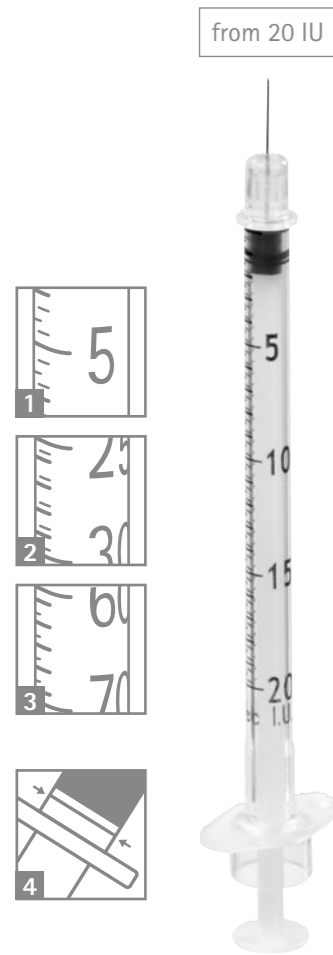
Size	Graduation / Scale Value	Total Graduated Capacity	Ø x Length (Needle)	Units Per Box	Code No. (REF)
1 ml	for Insulin U-100 with scale value 2 IU	1.0 ml	-	100 pcs.	9161708V
1 ml	for Insulin U-100 with scale value 2 IU	1.0 ml	0.45 x 12 mm		9161376V



# Omnican® Insulin Syringes

3-Piece Insulin Syringes for U-40 or U-100 Insulin with Integrated Needle

Single Blister Packaging



## PRODUCT FEATURES

- Fine 0.5 IU graduation (Omnican® 20) (1), 1.0 IU graduation (Omnican® 40 and 50) (2) or 2.0 IU graduation (Omnican® 100) (3)
- U-40 Insulin = red protection cap
- U-100 Insulin = orange protection cap
- Highly transparent barrel
- High contrast black graduation
- Integrated plunger backstop (4)
- Barrel made of polypropylene
- Plunger made of polystyrene
- Rubber piston with double sealing ring made of polyisoprene
- Protective cap made of polyethylene
- Integrated thin-wall needle (according to EN ISO 9626) with fine three-facets grinding and special silicone finish
- Not manufactured with Latex, PVC and DEHP
- Sterile single packaging
- Box of 100 pcs.

## USER BENEFITS

- Minimized Insulin loss due to integrated fine needle
- Barely perceptible puncture of skin due to precise three-facet bevel and silicone finish
- Highly transparent barrel with high-contrast black graduation for easy reading and exact dosing
- Safe plunger backstop to prevent unintentional plunger withdrawal
- Protective caps at the ends of the syringe guarantee its sterility

IU = Insulin Unit

# Omnican® Insulin Syringes

3-Piece Insulin Syringes for U-40 or U-100 Insulin with Integrated Needle

Omnican® 20 and Omnican® 40 for U-40 Insulin with integrated needle, manufactured according to ISO 8537

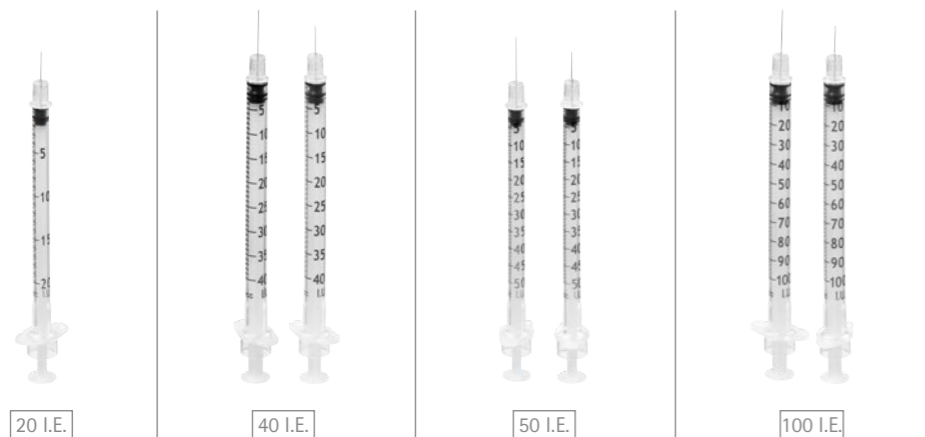
U-40

Maximum volume in IU	Graduation / Scale Value	Ø x Length (Needle)	Units Per Box	Code No. (REF)
20 IU for Insulin U-40	Insulin U-40 with scale value 0.5 IU	0.30 x 8 mm	100 pcs.	9161619S
40 IU for Insulin U-40	Insulin U-40 with scale value 1 IU	0.30 x 8 mm		9161635S
40 IU for Insulin U-40	Insulin U-40 with scale value 1 IU	0.30 x 12 mm		9161627S

Omnican® 50 and Omnican® 100 for U-100 Insulin with integrated needle, manufactured according to ISO 8537

U-100

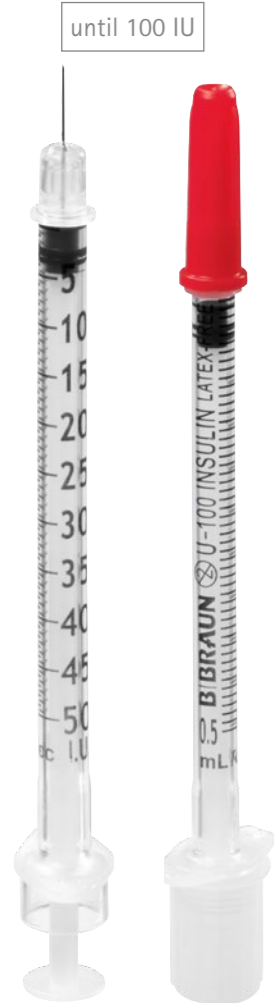
Maximum volume in IU	Graduation / Scale Value	Ø x Length (Needle)	Units Per Box	Code No. (REF)
50 IU for Insulin U-100	Insulin U-100 with scale value 1 IU	0.30 x 8 mm	100 pcs.	9151117S
50 IU for Insulin U-100	Insulin U-100 with scale value 1 IU	0.30 x 12 mm		9151125S
100 IU for Insulin U-100	Insulin U-100 with scale value 2 IU	0.30 x 8 mm		9151133S
100 IU for Insulin U-100	Insulin U-100 with scale value 2 IU	0.30 x 12 mm		9151141S



# Omnican® Insulin Syringes

3-Piece Insulin Syringes for U-40 or U-100 Insulin with Integrated Needle

Polybag



## USER BENEFITS

- Minimized Insulin loss due to integrated fine needle
- Barely perceptible puncture of skin due to precise three-facet bevel and silicone finish
- Highly transparent barrel with high-contrast black graduation for easy reading and exact dosing
- Safe plunger backstop to prevent unintentional plunger withdrawal
- Protective caps at the ends of the syringe guarantee its sterility
- The interior of each syringe is kept sterile on both ends as long as protective caps have not been removed
- Protective caps on both ends
- 10 pcs. per bag
- Packed up to 100 pcs. per box

IU = Insulin Unit



# Omnican® Insulin Syringes

3-Piece Insulin Syringes for U-40 or U-100 Insulin with Integrated Needle

Omnican® 20 and Omnican® 40 for U-40 Insulin with integrated needle, manufactured according to ISO 8537

U-40

Maximum volume in IU	Graduation / Scale Value	Ø x Length (Needle)	Units Per Box	Code No. (REF)
20 IU for Insulin U-40	Insulin U-40 with scale value 0.5 IU	0.30 x 8 mm	100 pcs.	9161619
40 IU for Insulin U-40	Insulin U-40 with scale value 1 IU	0.30 x 8 mm		9161635
40 IU for Insulin U-40	Insulin U-40 with scale value 1 IU	0.30 x 12 mm		9161627

Omnican® 50 and Omnican® 100 for U-100 Insulin with integrated needle, manufactured according to ISO 8537

U-100

Maximum volume in IU	Graduation / Scale Value	Ø x Length (Needle)	Units Per Box	Code No. (REF)
50 IU for Insulin U-100	Insulin U-100 with scale value 1 IU	0.30 x 8 mm	100 pcs.	9151117
50 IU for Insulin U-100	Insulin U-100 with scale value 1 IU	0.30 x 12 mm		9151125
100 IU for Insulin U-100	Insulin U-100 with scale value 2 IU	0.30 x 8 mm		9151133
100 IU for Insulin U-100	Insulin U-100 with scale value 2 IU	0.30 x 12 mm		9151141

# Pen Needles

Pen Needles for Insulin Injection



## STAY ON THE SAFE SIDE

Pen needles are sterile single-use products. Multiple use reduces quality and safety. Change the pen needle after every injection! Discard used pen needles into a sharps bin.

# Omnican® fine

Pen Needles for Insulin Injection

## PRODUCT FEATURES

- Extremely fine three-facet grinding
- Extra-thin-wall technology
- Cannula made of stainless steel with a silicone finish
- Needle container made of polyethylene
- Needle hub made of polypropylene
- Glue made of UV-curable adhesive
- Needle shield made of styrene-butadiene copolymer
- Not manufactured with PVC, Latex, DEHP and BPA
- In conformity with REACH regulation (EC) No 1907/2006
- Sterile pen needles
- Box of 100 pcs.

## USER BENEFITS

- Extremely fine three-facet grinding minimizes tissue trauma
- Special silicone finish for smooth gliding and virtually pain-free penetration of skin and tissue
- Extra-thin-wall technology allows for a larger inner diameter and an optimized Insulin flow; less force is required and injection time is reduced
- Firm and secure fit with just two twists of the hub
- Compatible with all major pen devices available on the market



Omnican® fine, manufactured according to ISO 11608-2

Product	Gauge	Ø	Units Per Box	Code No. (REF)
Omnican® fine* 4 mm	31 G	0.25 mm	100 pcs.	931G04S-41
Omnican® fine* 6 mm	31 G	0.25 mm		931G06S-41
Omnican® fine* 8 mm	31 G	0.25 mm		931G08S-41
Omnican® fine** 12 mm	29 G	0.33 mm		929G12S-41

\* Extra-thin wall technology, \*\* Thin-wall technology

Omnican® fine pen needles fit a high variety of Insulin injectors, in accordance with ISO 11608-2.

Further information:  
[www.bbraun.com/diabetes-pencompatibility](http://www.bbraun.com/diabetes-pencompatibility)



# Omnican® fine Comfort

Pen Needles with Integrated Sharps Disposal Container



## STAY ON THE SAFE SIDE

Pen needles are sterile single-use products. Multiple use reduces quality and safety. Change the pen needle after every injection! Discard used pen needles into a sharps bin.

# Omnican® fine Comfort

Pen Needles with Integrated Sharps Disposal Container

## PRODUCT FEATURES

- Product includes 100 pen needles and a medical sharps container
- Sterile pen needles
- Extremely fine three-facet grinding
- Extra-thin-wall technology
- Cannula made of stainless steel with a silicone finish
- Needle hub made of polypropylene
- Glue made of UV-curable adhesive
- Needle shield made of styrene-butadiene copolymer
- Not manufactured with PVC, Latex, DEHP and BPA
- In conformity with REACH regulation (EC) No 1907/2006
- Needle container made of polyethylene
- Sharps container according to EN ISO 23017:2012

## USER BENEFITS

- Simple detachment of the pen needle with the help of the Omnican® fine box
- Effective prevention of needlestick injuries as there is no need to touch the needle again
- Safe disposal in the sharps container due to its final locking system
- Handy – at home or on the move
- Further advantages of Omnican® fine pen needles on page 53



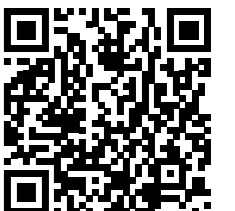
Omnican® fine Comfort, manufactured according to ISO 11608-2

Product	Gauge	Ø	Units Per Box	Code No. (REF)
Omnican® fine* Comfort 4 mm	31 G	0.25 mm	100 pcs. + 1 sharps container	9167846SE
Omnican® fine* Comfort 6 mm	31 G	0.25 mm		9167668SE
Omnican® fine* Comfort 8 mm	31 G	0.25 mm		9167684SE
Omnican® fine** Comfort 12 mm	29 G	0.33 mm		9167641SE

\* Extra-thin wall technology, \*\* Thin-wall technology

Omnican® fine pen needles fit a high variety of Insulin injectors, in accordance with ISO 11608-2.

Further information:  
[www.bbraun.com/diabetes-pencompatibility](http://www.bbraun.com/diabetes-pencompatibility)





# Conventional Hypodermic, Admixture and Safety Needles

Sterican®, Sterican® MIX, Sol-M™ Blunt Fill Needle and Sterican® Safety Needle

For injection, B. Braun offers an extensive range of single-use short-bevel and long-bevel needles for standard applications. The range also includes needles for special indications, such as Insulin application, blood sampling and intramuscular injections, as well as drug admixture and safety needles.



## Sterican®

Conventional Hypodermic Needles with Luer Lock Connector and with Bevel Length according to Indication

### PRODUCT FEATURES

- Made of stainless chromium nickel steel
- Transparent Luer Lock plastic hub made of polypropylene
- Silicone coating
- Three-facet long bevel
- Color-coded hub in accordance with ISO 6009
- Not manufactured with PVC, Latex and DEHP
- Sterile single packaging
- Box of 100 pcs.



### USER BENEFITS

- Smooth surface due to finely dosed silicone coating
- Bevel length according to indication
- Color-coded hub for easier identification of the outer needle diameter

Sterican®, manufactured according to ISO 7864

Gauge x Length	Ø x Length	Bevel Type	Indication*	Units Per Box	Code No. (REF)
20 G x 1 ½ "	0.90 x 40 mm	Long Bevel	Intravenous, for viscous solutions, intramuscular	100 pcs.	4657519
21 G x 1 ½ "	0.80 x 40 mm		Intravenous, for large volumes, intramuscular, for aqueous solutions		4657527
22 G x 1 ¼ "	0.70 x 30 mm		Intravenous, intramuscular		4657624
23 G x 1 ¼ "	0.60 x 30 mm		Intravenous, intramuscular, for small volumes		4657640
23 G x 1 "	0.60 x 25 mm		Intravenous, intramuscular, for small volumes		4657667
24 G x 1 "	0.55 x 25 mm		Intravenous, subcutaneous, hand veins, pediatrics		4657675
26 G x 1 "	0.45 x 20 mm		Intravenous, subcutaneous, hand veins, pediatrics		4657683
27 G x ¾ "	0.40 x 20 mm		Intravenous, subcutaneous		4657705

\* The indications listed are only recommendations based on dimensions. The user remains responsible for how the sizes are used.

# Sterican® for Special Indications

Conventional Hypodermic Needles with Luer Lock Connector for Insulin Injection

## PRODUCT FEATURES




- Made of stainless chromium nickel steel
- Transparent Luer Lock plastic hub made of polypropylene
- Silicone coating
- Three-facet long bevel
- Color-coded hub in accordance with ISO 6009
- For use with Injekt® and Omnifix® Insulin syringes (see page 46, 47)
- Not manufactured with PVC, Latex and DEHP
- Sterile single packaging
- Box of 100 pcs.



## USER BENEFITS

- Smooth surface due to finely dosed silicone coating
- Bevel length according to indication
- Color-coded hub for easier identification of the outer needle diameter

Sterican®, manufactured according to ISO 7864

Gauge x Length	Ø x Length	Bevel Type	Units Per Box	Code No. (REF)
 26 G x 1/2 "	0.45 x 12 mm			4665457
 27 G x 1/2 "	0.40 x 12 mm	Long Bevel	100 pcs.	4665406
 30 G x 1/2 "	0.30 x 12 mm			4656300

The indications listed are only recommendations based on dimensions. The user remains responsible for how the sizes are used.

# Sterican® for Special Indications

Conventional Hypodermic Needles with Luer Lock Connector for Administration of Heparin and Tuberculin

## PRODUCT FEATURES

- Made of stainless chromium nickel steel
- Transparent Luer Lock plastic hub made of polypropylene
- Silicone coating
- Three-facet long bevel
- Color-coded hub in accordance with ISO 6009
- Not manufactured with PVC, Latex and DEHP
- Sterile single packaging
- Box of 100 pcs.



## USER BENEFITS

- Smooth surface due to finely dosed silicone coating
- Bevel length according to indication
- Color-coded hub for easier identification of the outer needle diameter

Sterican®, manufactured according to ISO 7864

Gauge x Length	Ø x Length	Bevel Type	Units Per Box	Code No. (REF)
 25 G x 5/8 "	0.5 x 16 mm	Long Bevel	100 pcs.	4657853

The indications listed are only recommendations based on dimensions. The user remains responsible for how the sizes are used.

# Sterican® for Special Indications

Conventional Hypodermic Needles with Luer Lock Connector for Blood Sampling



## PRODUCT FEATURES

- Made of stainless chromium nickel steel
- Transparent Luer Lock plastic hub made of polypropylene
- Silicone coating
- Three-facet long bevel
- Color-coded hub in accordance with ISO 6009
- Not manufactured with PVC, Latex and DEHP
- Sterile single packaging
- Box of 100 pcs.

## USER BENEFITS

- Smooth surface due to finely dosed silicone coating
- Bevel length according to indication
- Color-coded hub for easier identification of the outer needle diameter

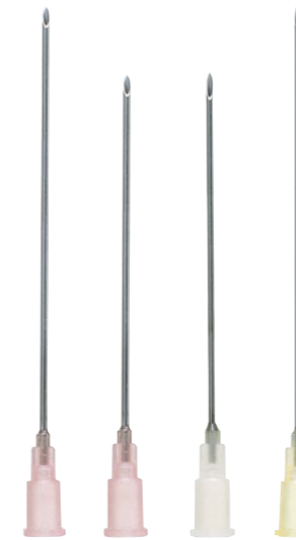
Sterican®, manufactured according to ISO 7864

Gauge x Length	Ø x Length	Bevel Type	Units Per Box	Code No. (REF)
19 G x 1 1/2 "	1.1 x 40 mm	Long Bevel	100 pcs.	4657799
19 G x 1 1/4 "	1.1 x 30 mm			4665317
20 G x 1 "	0.9 x 25 mm			4657500
21 G x 1 "	0.8 x 25 mm			4657543
22 G x 1 1/2 "	0.7 x 40 mm			4660021

The indications listed are only recommendations based on dimensions. The user remains responsible for how the sizes are used.

# Sterican® for Special Indications

Conventional Hypodermic Needles with Luer Lock Connector for Phlebotomy/Blood Sampling



## PRODUCT FEATURES

- Made of stainless chromium nickel steel
- Transparent Luer Lock plastic hub made of polypropylene
- Silicone coating
- Three-facet short bevel
- Color-coded hub in accordance with ISO 6009
- Not manufactured with PVC, Latex and DEHP
- Sterile single packaging
- Box of 100 pcs.

## USER BENEFITS

- Smooth surface due to finely dosed silicone coating
- Bevel length according to indication
- Color-coded hub for easier identification of the outer needle diameter

Sterican®, manufactured according to ISO 7864

Gauge x Length	Ø x Length	Bevel Type	Units Per Box	Code No. (REF)
18 G x 1 1/2 "	1.2 x 40 mm	Short Bevel	100 pcs.	4665120
18 G x 2 "	1.2 x 50 mm			4667123
19 G x 1 1/2 "	1.1 x 40 mm			4665112
20 G x 2 "	0.9 x 50 mm			4667093

The indications listed are only recommendations based on dimensions. The user remains responsible for how the sizes are used.

# Sterican® for Special Indications

Conventional Hypodermic Needles with Luer Lock Connector for Intramuscular Application



## PRODUCT FEATURES

- Made of stainless chromium nickel steel
- Transparent Luer Lock plastic hub made of polypropylene
- Silicone coating
- Three-facet long bevel
- Color-coded hub in accordance with ISO 6009
- Not manufactured with PVC, Latex and DEHP
- Sterile single packaging
- Box of 100 pcs.

## USER BENEFITS

- Smooth surface due to finely dosed silicone coating
- Bevel length according to indication
- Color-coded hub for easier identification of the outer needle diameter

Sterican®, manufactured according to ISO 7864

Gauge x Length	Ø x Length	Bevel Type	Units Per Box	Code No. (REF)
19 G x 2"	1.1 x 50 mm	Long Bevel	100 pcs.	4665511
21 G x 2"	0.8 x 50 mm			4665503

The indications listed are only recommendations based on dimensions. The user remains responsible for how the sizes are used.

# Sterican® for Special Indications

Conventional Hypodermic Needles with Luer Lock Connector for Deep Intramuscular Application



## PRODUCT FEATURES

- Made of stainless chromium nickel steel
- Transparent Luer Lock plastic hub made of polypropylene
- Silicone coating
- Three-facet long bevel
- Color-coded hub in accordance with ISO 6009
- Not manufactured with PVC, Latex and DEHP
- Sterile single packaging
- Box of 100 pcs.

## USER BENEFITS

- Smooth surface due to finely dosed silicone coating
- Bevel length according to indication
- Color-coded hub for easier identification of the outer needle diameter

Sterican®, manufactured according to ISO 7864

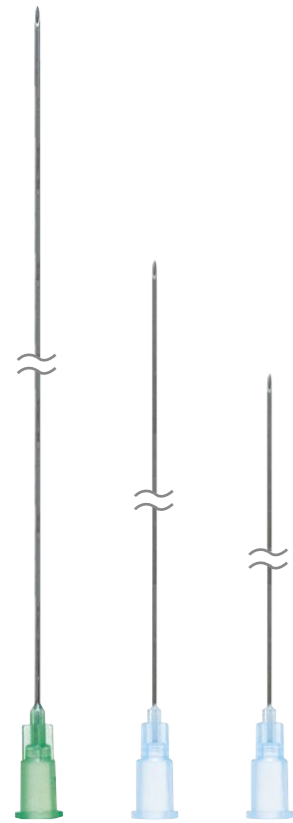
Gauge x Length	Ø x Length	Bevel Type	Units Per Box	Code No. (REF)
20 G x 2 3/4"	0.9 x 70 mm	Long Bevel	100 pcs.	4665791
21 G x 3 1/8"	0.8 x 80 mm			4665465

The indications listed are only recommendations based on dimensions. The user remains responsible for how the sizes are used.



# Sterican® for Special Indications

Conventional Hypodermic Needles with Luer Lock Connector for Neural Therapy



## PRODUCT FEATURES

- Made of stainless chromium nickel steel
- Transparent Luer Lock plastic hub made of polypropylene
- Silicone coating
- Three-facet long bevel
- Color-coded hub in accordance with ISO 6009
- Not manufactured with PVC, Latex and DEHP
- Sterile single packaging
- Box of 100 pcs.

## USER BENEFITS

- Smooth surface due to finely dosed silicone coating
- Bevel length according to indication
- Color-coded hub for easier identification of the outer needle diameter

Sterican®, manufactured according to ISO 7864

Gauge x Length	Ø x Length	Bevel Type	Units Per Box	Code No. (REF)
21 G x 4 3/4 "	0.8 x 120 mm	Long Bevel	100 pcs.	4665643
23 G x 3 1/8 "	0.6 x 80 mm			4665635
23 G x 2 3/8 "	0.6 x 60 mm			4665600

The indications listed are only recommendations based on dimensions. The user remains responsible for how the sizes are used.

# Sterican® for Special Indications

Conventional Hypodermic Needles with Luer Lock Connector for Dental Anesthesia



## PRODUCT FEATURES

- Made of stainless chromium nickel steel
- Transparent Luer Lock plastic hub made of polypropylene
- Silicone coating
- Three-facet long bevel
- Color-coded hub in accordance with ISO 6009
- Not manufactured with PVC, Latex and DEHP
- Sterile single packaging
- Box of 100 pcs.

## USER BENEFITS

- Smooth surface due to finely dosed silicone coating
- Bevel length according to indication
- Color-coded hub for easier identification of the outer needle diameter

Sterican®, manufactured according to ISO 7864

Gauge x Length	Ø x Length	Bevel Type	Indication*	Units Per Box	Code No. (REF)
25 G x 1 "	0.5 x 25 mm	Long Bevel	Infiltration Anesthesia	100 pcs.	9186158
25 G x 1 1/2 "	0.5 x 40 mm		Maxillary, mandibular, block anesthesia		9186166
27 G x 1 1/2 "	0.4 x 40 mm		Maxillary, mandibular, block anesthesia		9186182
27 G x 1 "	0.4 x 25 mm		Regional Anesthesia		9186174

\* The indications listed are only recommendations based on dimensions. The user remains responsible for how the sizes are used.

# Sterican® MIX Blunt Fill Needle

Blunt Needles with Luer Lock Connector for Drug Admixture



NEEDLES FOR DRUG ADMIXTURE ONLY!

## PRODUCT FEATURES

- Made of stainless chromium nickel steel
- Blunt bevel (90°)
- Colored needle hub made of polypropylene
- Extremely smooth surface and finely dosed silicone coating
- Compatible with Luer and Luer Lock connectors
- Not manufactured with PVC, Latex and DEHP
- Sterile single packaging
- Box of 100 pcs.

## USER BENEFITS

- Fully-blunt bevel design minimizes the risk of needlestick injuries
- 90° bevel angle draw up of medications e.g. from glass and plastic ampoules
- Guaranteed 2-needle technique ensuring that a new sterile needle is used for patient injection



Sterican® MIX, manufactured according to ISO 7864

Product	Gauge x Length	Ø x Length	Bevel Type	Bevel Angle	Units Per Box	Code No. (REF)
Sterican® MIX	18 G x 1 ½ "	1.2 x 40 mm	Blunt	90°	100 pcs.	4038088-01

The indications listed are only recommendations based on dimensions. The user remains responsible for how the sizes are used.

# Sterican® MIX Semi-Blunt Fill Needle

Semi-Blunt Needles with Luer Lock Connector for Drug Admixture (with and without Filter)



NEEDLES FOR DRUG ADMIXTURE ONLY!

## PRODUCT FEATURES

- Needle with and without 5 micron filter
- Made of stainless chromium nickel steel
- Semi-blunt bevel (40° and 45°)
- Red and purple colored needle hub made of polypropylene
- Extremely smooth surface and finely dosed silicone coating
- Compatible with Luer and Luer Lock connectors
- Not manufactured with PVC, Latex and DEHP
- Sterile single packaging
- Box of 100 pcs.

## USER BENEFITS

- 40° and 45° bevel angle for draw up of medications e.g. from glass and plastic ampoules
- Blunt needle with filter features a 5 micron filter membrane that is designed to prevent larger particles being drawn into the syringe when preparing medication from glass ampoules
- Guaranteed 2-needle technique ensuring that a new sterile needle is used for patient injection
- Clear differentiation from ISO colored injection needles due to red and purple color coding



Sterican® MIX and Sol-M™ Blunt Fill Needle, manufactured according to ISO 7864

Product	Gauge x Length	Ø x Length	Bevel Type	Bevel Angle	Units Per Box	Code No. (REF)
Sterican® MIX	18 G x 1 ½ "	1.2 x 40 mm		40°		4550400-01
SOL-M™ Blunt Fill Needle	18 G x 1 ½ "	1.2 x 40 mm		45°		110022
SOL-M™ Blunt Fill Needle	18 G x 2 "	1.2 x 50 mm	Semi-blunt	45°	100 pcs.	110023
SOL-M™ Blunt Fill Needle w/Filter	18 G x 1 ½ "	1.2 x 40 mm		45°		110022F
SOL-M™ Blunt Fill Needle w/Filter	18 G x 2 "	1.2 x 50 mm		45°		110023F

# Sterican® Safety Needle

Hypodermic Safety Needles with Luer Lock Connector and Bevel Length according to Indication

## PRODUCT FEATURES






















- Made of stainless chromium nickel steel
- Transparent Luer Lock plastic hub made of polypropylene
- Silicone coating
- Three-facet long bevel
- Color-coded hub in accordance with ISO 6009
- Compliant with EU Directive (2010/32/EU)
- Not manufactured with PVC, Latex and DEHP
- Sterile single packaging
- Box of 100 pcs.



## USER BENEFITS

- Hypodermic needle with an anti-needlestick device to reduce the risk of accidental needlesticks
- Visual and audible feedback is provided during activation of safety mechanism to confirm that the needle is secured
- Up to three hooks help to ensure a secure locking of the needle
- One-piece design ensures that safety shield and needle remain securely engaged during the application process
- Smooth needle surface due to finely dosed silicone coating
- Bevel length according to indication
- Color-coded hub for easier identification of the outer needle diameter

Sterican® Safety Needle, manufactured according to ISO 7864

Gauge x Length	Ø x Length	Bevel Type	Units Per Box	Code No. (REF)
 30 G x 1/2"	0.30 x 13 mm	Long Bevel	100 pcs.	4670002S-01
 27 G x 1/2"	0.40 x 13 mm			4670005S-01
 26 G x 1/2"	0.45 x 13 mm			4670008S-01
 25 G x 5/8"	0.50 x 16 mm			4670012S-01
 25 G x 1"	0.50 x 25 mm			4670016S-01
 25 G x 1 1/2"	0.50 x 40 mm			4670020S-01
 24 G x 1"	0.55 x 25 mm			4670022S-01
 23 G x 1"	0.60 x 25 mm			4670025S-01
 23 G x 1 1/4"	0.60 x 30 mm			4670027S-01
 23 G x 1 1/2"	0.60 x 40 mm			4670028S-01
 22 G x 1"	0.70 x 25 mm			4670030S-01
 22 G x 1 1/4"	0.70 x 30 mm			4670032S-01
 22 G x 1 1/2"	0.70 x 40 mm			4670035S-01
 21 G x 1"	0.80 x 25 mm			4670040S-01
 21 G x 1 1/4"	0.80 x 30 mm			4670042S-01
 21 G x 1 1/2"	0.80 x 40 mm			4670045S-01
 20 G x 1"	0.90 x 25 mm			4670047S-01
 20 G x 1 1/2"	0.90 x 40 mm			4670050S-01
 19 G x 1 1/2"	1.10 x 40 mm			4670052S-01
 18 G x 1"	1.20 x 25 mm			4670053S-01
 18 G x 1 1/2"	1.20 x 40 mm	4670055S-01		



# Sterican® Safety Needle

## Product Details



### Secure Locking

- Up to three hooks help to ensure a secure locking of the needle
- Visual and audible feedback is provided during activation of safety mechanism to confirm that needle is secured



### Bevel Orientation

- Bevel-up orientation of needle indicated by opposite position of safety shield



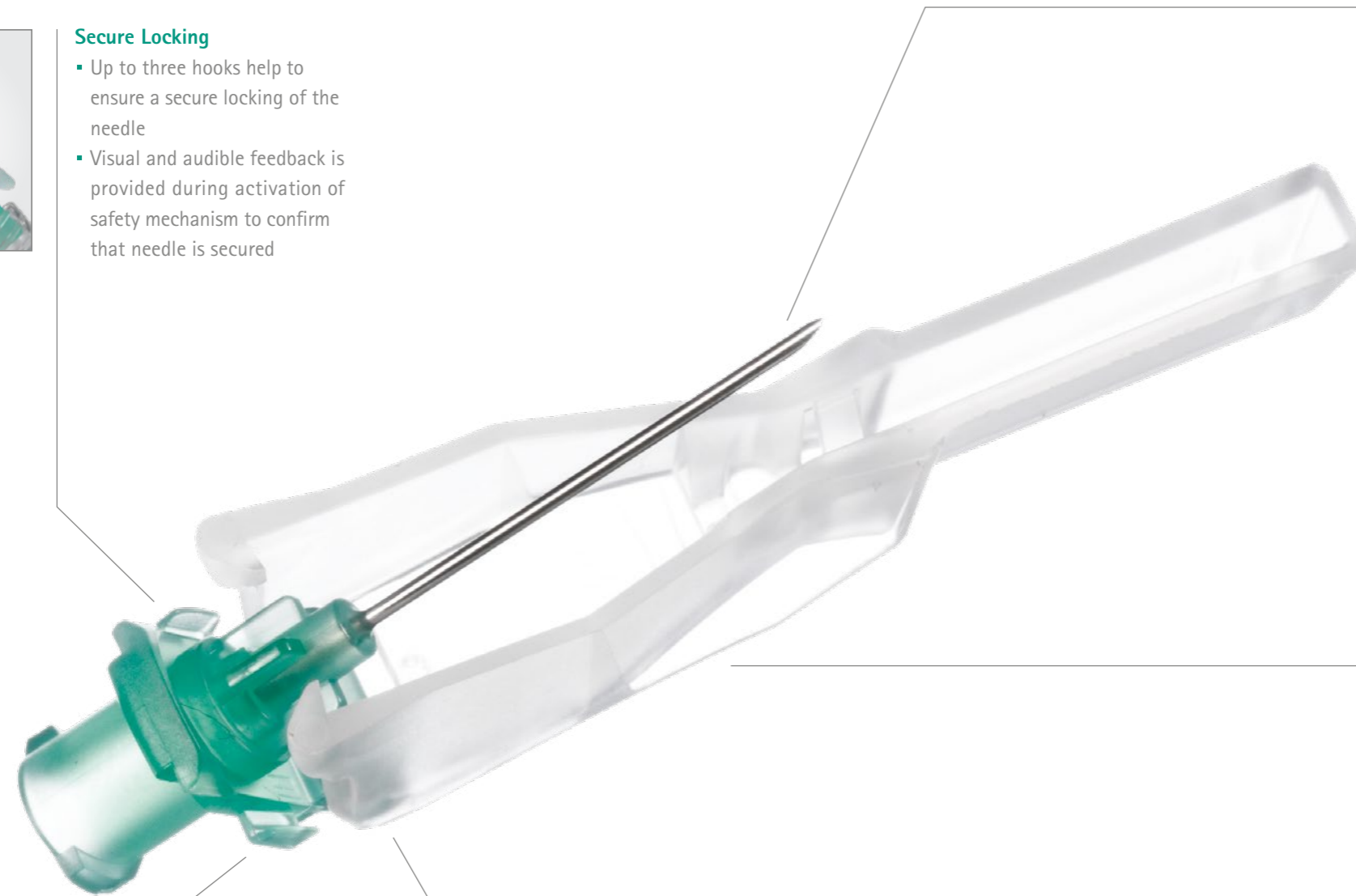
### Safety Mechanism

- Safety shield to cover needle after application: Supports the protection from NSI by covering the needle after application



### Easy Activation

- Activation of safety shield with one-hand technique: Helps to ensure that the hand of the user is behind the needle
- Grip plate for easy activation: Allows for standard puncture technique without extra steps



### One-piece Design

- One-piece design ensures that safety shield and needle remain securely engaged during the application process



### Adjustable Hinge

- Hinge allows for easy adjustment of safety shield according to application

### TECHNICAL FEATURES

- Available in sizes G30-G18
- Compatible with all standard Luer-Lock and Luer-Slip syringes
- Made of stainless chromium-nickel steel
- Made of polypropylene (needle hub)
- In compliance with EU Directive 2010/32/EU
- Color-coding according to ISO 6009



# Sterican® Safety Needle

## Handling Instructions



Carefully remove Sterican® Safety Needle from the packaging.



Attach the safety needle securely to any Luer-Lock or Luer-Slip syringe by twisting the syringe clockwise while holding the clear needle safety shield close to its base.



Hold the syringe with one hand and with the other hand fold the safety shield back towards the syringe.



If activating with one hand, position your thumb or forefinger carefully on the textured finger plate. Push the safety shield over the needle until a slight snap is felt and an audible click is heard. Perform activation of the safety feature away from yourself and others.



Be sure to visually confirm that the safety feature is engaged before disposal.



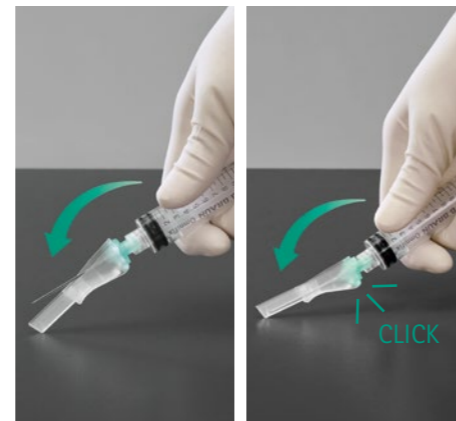
After activation dispose the used needle immediately into an approved sharps container following the standard procedures of your facility and/or according to applicable regulations for sharps disposal.



Remove the protective cap carefully from the needle hub to avoid exposure to the sharp needle point.



Perform injection according to your established procedure.



Activate the mechanism by pressing the safety shield against a suitable hard and flat surface until you hear an audible click.



In order to view the Sterican® Safety Needle handling video directly on your mobile phone and to obtain product information, simply scan the QR code with the camera of your smartphone and a suitable reader application and get to the website.



# Medibox®

## Sharps Disposal Containers

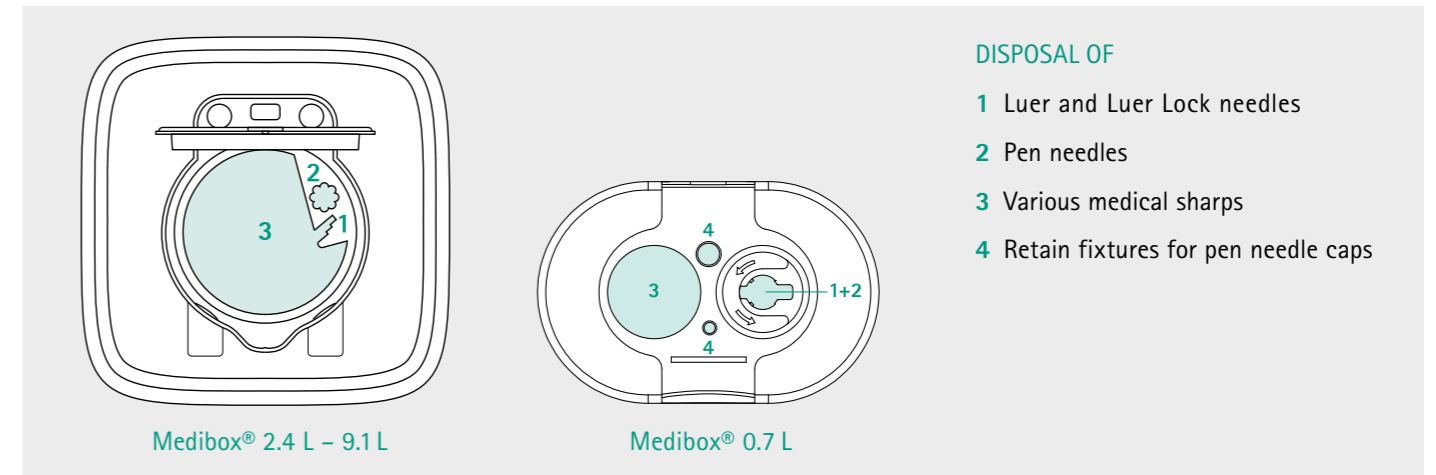


### PRODUCT FEATURES

- Medibox sharps disposal containers are complying with international standard ISO 23907, ADR2015 and 2008/68/EC (except Medibox 0,7 L)
- Impact and puncture resistant according ISO 23907
- Container and lid made of polypropylene

### USER BENEFITS

- No-touch, twist-off and insertion inlets for all kinds of used Luer and Luer Lock needles as well as pen needles
- Large opening to ease the insertion of various medical sharps
- Easy to use temporary closure
- Irreversible final lock mechanism
- Overfill warning by maximum fill line



### DISPOSAL OF

- Luer and Luer Lock needles
- Pen needles
- Various medical sharps
- Retain fixtures for pen needle caps

Size	Max. Filling Volume	Dimension (L x W x H)	Base (L x W)	Units Per Box	Code No. (REF)
0.7 L	0.6 L	11.4 x 7.4 x 13 cm	10.5 x 6.5 cm	10 pcs.	9193405
2.4 L	2.0 L	15.1 x 15.2 x 20 cm	11 x 11 cm	27 pcs.	9193600
4.7 L	3.9 L	19 x 19 x 20.5 cm	15 x 15 cm	25 pcs.	9193618
5.7 L	4.8 L	19 x 19 x 25.7 cm	13.9 x 13.9 cm	25 pcs.	9193627
6.8 L	5.7 L	16.7 x 16.7 x 50 cm	∅ 11 cm	22 pcs.	9193639
9.1 L	7.7 L	21.5 x 21.5 x 32.5 cm	17 x 17 cm	13 pcs.	9193640

Accessories	Units Per Box	Code No. (REF)
Medibox® 6.8 L Holding bracket for pole mounting	1 pc (16 pcs./carton)	9193639-0
Medibox® 9.1 L Fixation screw for pole mounting	1 pc (100 pcs./carton)	9193640-0



## 1 LID ASSEMBLY



Place the lid on the medical waste container and press firmly on the opposite corners of the lid until a "click" confirms the lock.

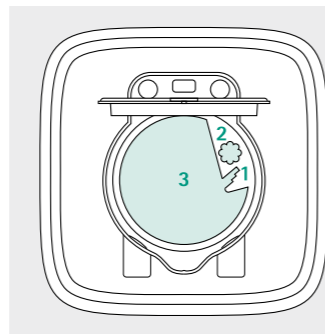
**Check that the lid is properly locked on all sides!**

## 2 DISPOSAL



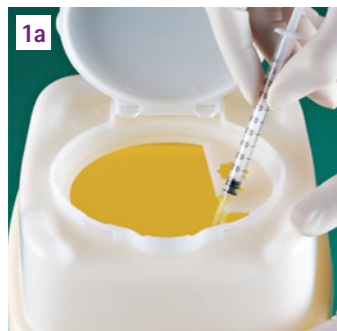
Open the lid by applying slight pressure on the tab – the lid flap jumps up slightly.

Push the lid flap with one hand, until it locks into a standing position.

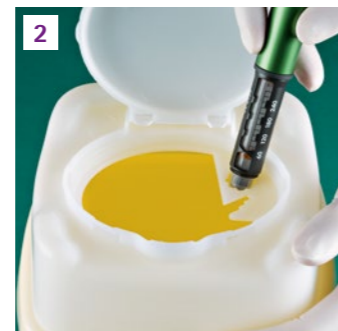


### DISPOSAL OF

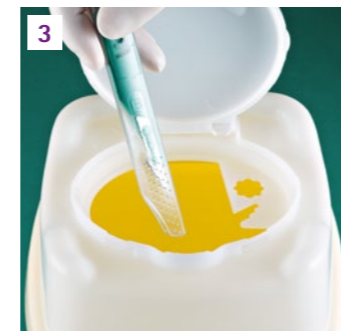
- 1 Luer and Luer Lock needles
- 2 Pen needles
- 3 Various medical sharps



1a Disconnect Luer and Luer Lock connections between syringe and cannula.



2 Unscrew a pen needle from a pen.



3 Dispose large medical sharps.

## 3 LID CLOSURE



### TEMPORARY CLOSURE:

Release the lid flap from the standing position and press it lightly onto the housing.

### PERMANENT CLOSURE:

Close the Medibox® after reaching the maximum filling volume (see marking line on lid) by simultaneously pressing on the marked pressure points.

Dispose the permanently closed Medibox® in accordance with your local regulations.



In order to view the Medibox® handling video directly on your mobile phone and to obtain product information, simply scan the QR code with the camera of your smartphone and a suitable reader application and get to the website.





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