



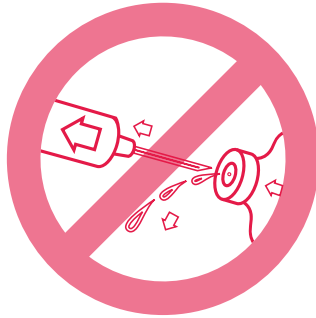
Protective Admixture Tools

For Aseptic Pharmacy

A portfolio of solutions for your key admixture procedures



Microbiological Contamination



Chemical Contamination



Particle Contamination

A ward or pharmacy face a number of challenges everyday: numerous drugs have to be admixed quickly, all at the same time, the patients need their medicines and treatment regimens have to start.

In this labour intensive and challenging healthcare environment, there is a real need for more convenient and time saving products.

These products help to reduce the risk associated with drug reconstitution such as helping to minimise the risks of needlestick injuries, contamination and potential harm to patients.

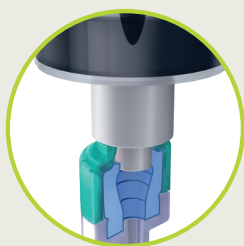
Maximise safety and convenience in your daily routine.

Content

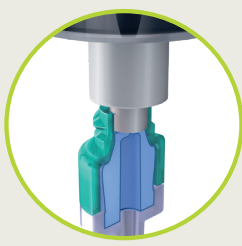
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1. Mini-Spike® 2

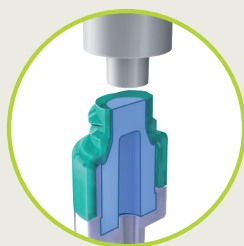
Swabable valve and its automatic closure



1. Open valve



2. Disconnection



3. Closed valve

Swabable valve and its automatic closure upon syringe disconnection, help to minimise the risk of chemical and microbiological contamination.



- Needlefree design helps to reduce the risk of sharps injuries through the admixture process
- Colour coding for easier differentiation within the product range
- Large handling area provides a comfortable grip
- Two lumen spike for easy piercing of stoppers and effective flow through the air and fluid* filters
- Protective cap helps to protect against contamination
- Air filter** helps minimise the risk of toxic aerosol release and makes pressure balancing technique unnecessary

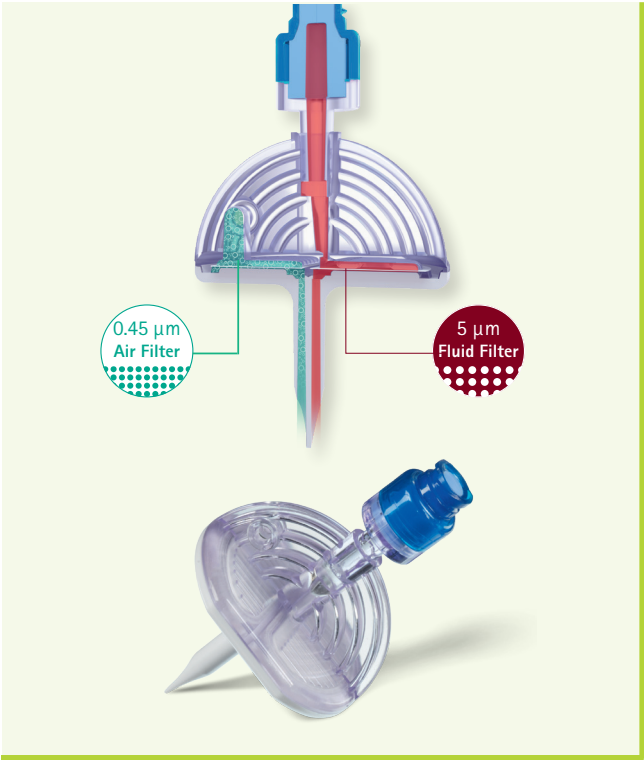
*Fluid filter with ref. 4550591 and 4550592

** 0.45 µm air filter with ref. 4550590 and 4550591, 0.2 µm air filter with ref. 4550592

Code	4550590
Sales Unit	50



Mini-Spike® 2 Filter

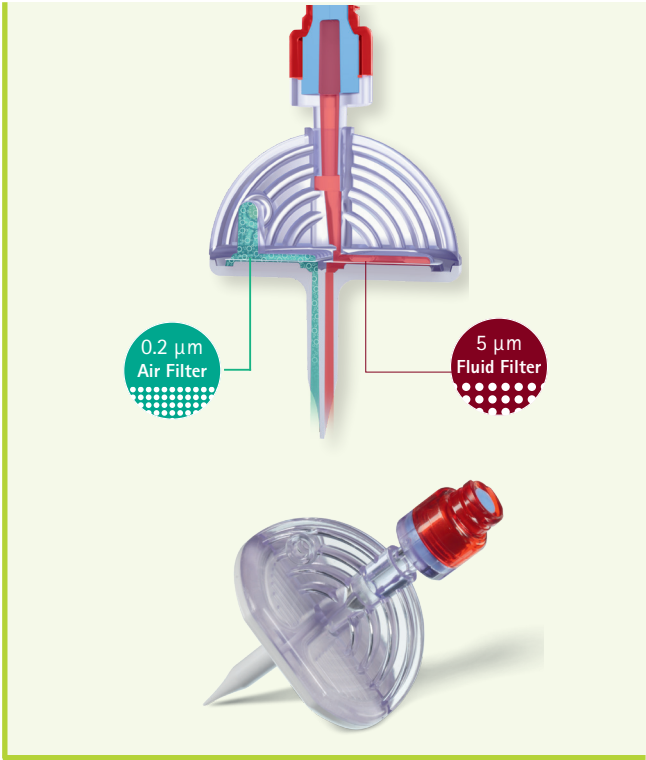


Fluid filter retains particles bigger than 5 µm (e.g. rubber or undissolved drug).

- Same benefits as Mini-Spike®
- Helps reduce particle contamination of the fluid. Integrated 0.45 µm air filter

Code	4550591
Sales Unit	50

Mini-Spike® 2 Chemo



Fluid filter retains particles bigger than 5 µm (e.g. rubber or undissolved drug).

- Helps reduce risk of contamination with toxic aerosols
- Helps reduce particle contamination of the fluid. Integrated 0.2µm air filter

Code	4550592
Sales Unit	50

Mini Spike® Micro-Tip



Code	4550510
Sales Unit	50

Mini Spike® Filter Micro-Tip



Code	4550528
Sales Unit	50

Mini-Spike® Chemo Micro-Tip



Code	4550536
Sales Unit	50

The micro-tip helps to prevent pushing the vial bung into the container. This feature enables the withdrawal of viscous medication from vials.

2. Classic Mini-Spike® SAFSITE® capped Valve System

Mini-Spike® Dispensing Pin with
SAFSITE® Valve



- Utilises a 0.45 µm bacterial retentive air venting filter
- Automatic two-way valve for aspiration or injection from inverted multi-dose vials
- Luer Slip connector

Code	412000
Sales Unit	50

Chemo Dispensing Pin (with Distal
Mini-Spike® Connector)



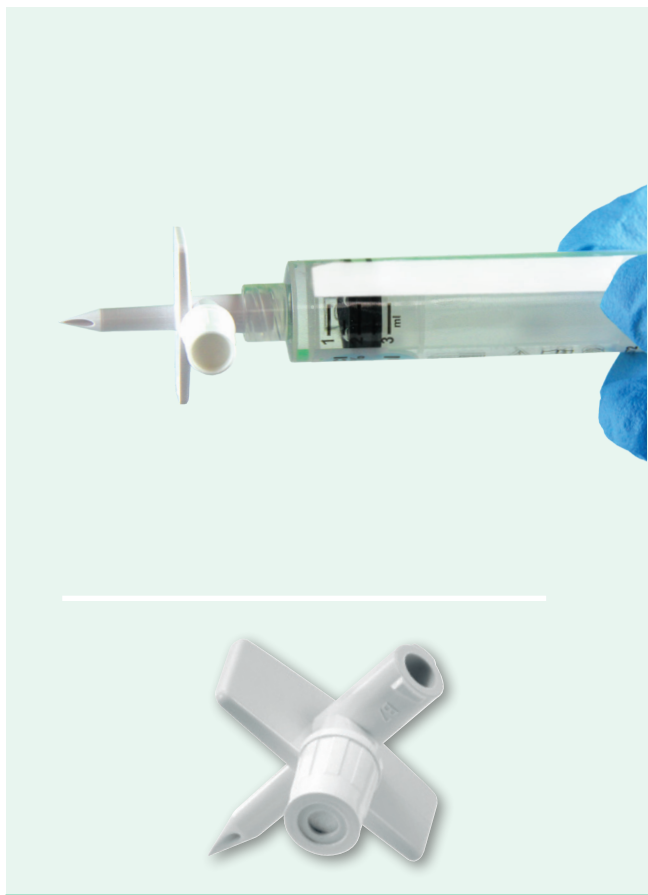
- Designed to eliminate aerosoling of chemotherapeutic medications during the reconstitution and dispensing process
- Utilises 0.2 µm hydrophobic air-venting filter
- Proximal Luer Lock connector

Code	4412014
Sales Unit	50

2. Classic Mini-Spike®

ULTRASITE® Capless Valve System

Mini-Spike® IV Additive Dispensing Pin



- For preparing/dispensing diluent/additive from multi-dose rubber stoppered vials
- Utilises a 0.45 µm bacteria retentive air-venting filter
- Proximal Luer Lock connector

Code	412012
Sales Unit	50

3. Disc Filters

Disc filters in 0.2, 1.2 are colour coded and packaged for ease of use.

All feature proximal and distal Luer Lock connections
(DEHP and latex-free).

Disc Filter 0.2 μm



- 0.2 μm SUPOR® aspiration or injection disc filter
- For bacteria retentive filtration
- Proximal and distal Luer Lock connections (fluid retention is 0.3 ml)

Code	4099206
Sales Unit	50

Disc Filter 1.2 μm



- 1.2 μm SUPOR® aspiration/injection disc filter
- For fungal and particulate filtration with low drug binding membrane
- Proximal and distal Luer Lock connections (fluid retention is 0.3 ml)

Code	414995
Sales Unit	50

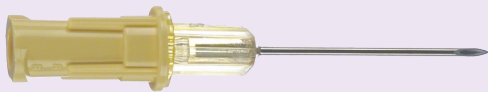
4. Filter Needles

- Thin wall needle for withdrawal or injection from rubber stoppered vials
- 5 µm in female Luer Lock connection



Filter Needle - 19G x 1.5"

Code	415030
Sales Unit	100



Filter Needle - 20G x 1.0"

Code	415035
Sales Unit	100



Filter Needle - 19G x 1.0"

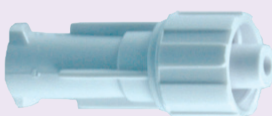
Code	415040
Sales Unit	50



Filter Needle II 19G x 1.0"

- Filter needle II removable 5 µm

Code	415042
Sales Unit	100



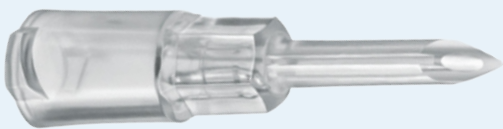
Filter Hub

- 5 µm in male/female Luer Lock hub for use with standard Luer connections

Code	418021
Sales Unit	100

5. Micro Pins and Filter Straws

Vented Pin

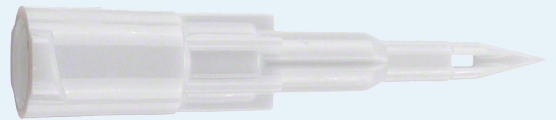


- Vented piercing pin with Luer lock connector
- Designed with inbuilt air channel with automatic pressure balancing for faster withdrawals

Code	415070
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Sales Unit	100
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Lateral Flow Vented Pin



- Vented piercing pin designed to minimise drug foaming during the reconstitution process
- Luer Lock connector

Code	415072
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Sales Unit	100
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Micro Pin



- Non vented micro pin for fluid withdrawal or injection and piercing (vial stoppers and bag injection ports)
- Intuitive handling according to standard technique. Simple design
- Helps prevent needlestick injuries. Made of plastic
- Allows high fluid-flow rate. Large internal lumen

Code	415019
Sales Unit	50

Filter Straw (Needlefree)



- Short filter straw for withdrawal and filtration of fluids from small ampoules
- Helps to reduce the risk of glass particle injection with glass ampoules. 5 µm filter hub attached
- Helps to prevent needlestick injuries. Blunt plastic straw
- Suitable for aspiration. Flexible straw can be angled

Code (1.75")	415021
Code (4")	415020
Sales Unit	100

6. Transfer Devices

FDC 1000 Fluid Dispensing Connector



- Fluid dispensing connector for filling unit-dose syringes from a large master syringe
- Provides a secure connection of two syringes. Luer Lock connections on both sides
- Easy-to-use and minimises contamination. Large grip plates
- Easy air elimination from unit-dose syringe. Air is always located in the upper end of the master syringe

Code	415080
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Sales Unit	100
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Double-ended Transfer Needle



- Used for fast transfer from rubber stoppered vial to vacuumised IV container
- Proximal 17G x 1.25" needle opposite 17G x 0.75" needle

Code	415017
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Sales Unit	50
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7. Fluid Dispensing



MULTI-AD® Transfer Set

- Accepts standard syringe for dispensing IV additives
- Vented transfer set with automatic two-way valve assembly
- Universal spike, on/off clamp, dual check valve
- Length: 43" (109.2 cm)

Code	513548
Sales Unit	20



MULTI-AD® Fluid Dispensing System

- Transfer set with contoured grip on 10 cc Luer Lock syringe with adjustable automatic spring return, dual check valve and universal spike
- Length: 41" (104.1 cm)

Code	513506
Sales Unit	10



MULTI-AD® Fluid Dispensing System

- Vented transfer set for use with MULTI-AD® pump
- Length: 41" (104.1 cm) with 40" extension set with distal Luer Lock connector

Code	513540
Sales Unit	10

8. Dispensing Pins

SAFSITE® Capped Valve System



Non-vented Dispensing Pin with Two-way Valve and SAFSITE® Valve

- Convenient non-vented dispensing pin with two-way valve and Safsite® valve for injecting or withdrawing fluids from bags or semi-rigid containers
- Rapid fluid transfer and high-flow rates. Large lumen and high-flow valve design
- Self-sealing valve system

Code	413501
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Sales Unit	50
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Standard Spike Dispensing Pin with SAFSITE® Valve

- Utilises a 0.45 µm bacterial retentive air venting filter
- Automatic two-way valve for aspiration or injection from inverted multi-dose vial
- Luer Lock connector

Code	412006
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Sales Unit	50
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8. Dispensing Pins

ULTRASITE® Capless Valve System



Non-vented Dispensing Pin with One-way Valve

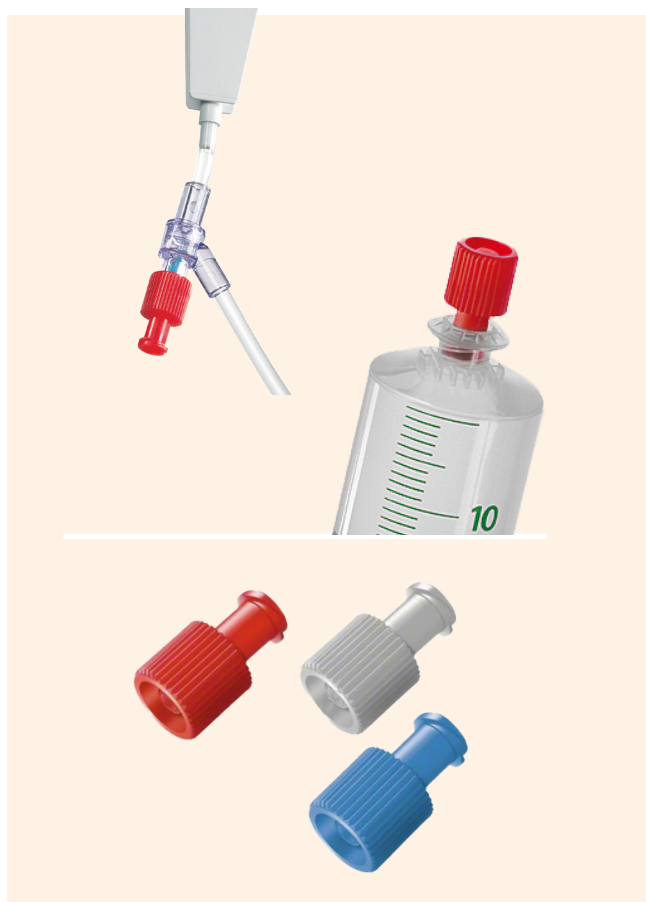
- For aspiration from bags and semi-rigid containers
- Luer Lock connector

Code	412022
Sales Unit	50

We
PROTECT
and
IMPROVE
the
HEALTH
of people
around the world.

9. Connectors and Syringe Caps

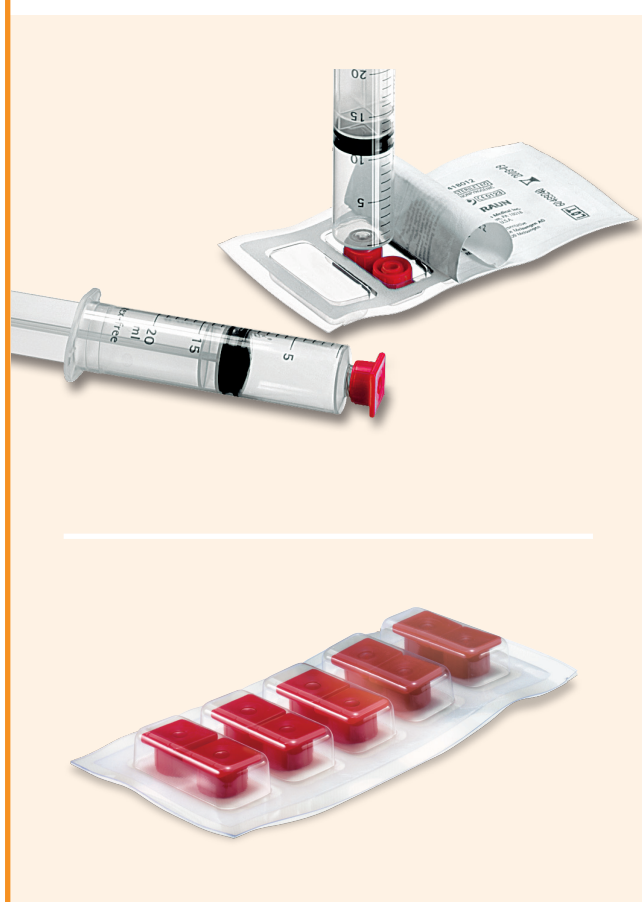
Combi Stopper



- Combi-stopper (red) for sealing male or female Luer Lock and Luer Slip connections
- Universally seals all connections. Multifunctional design combines male, female, Luer Lock and Luer Slip adaptability

Red	Code	4495101
Blue	Code	4495152
White	Code	4495209
Sales Unit		100

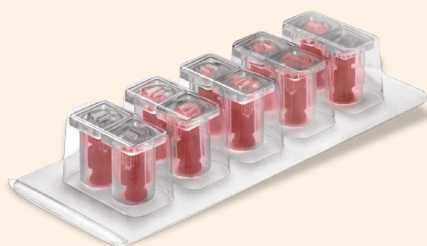
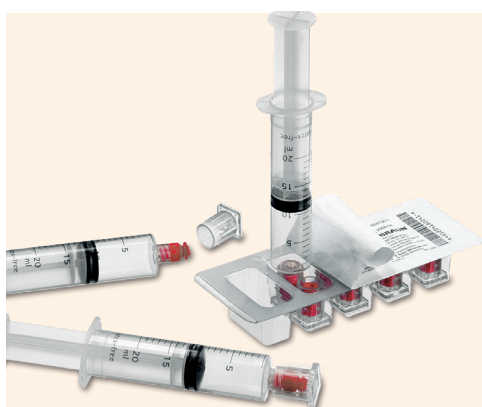
MULTI-AD® Luer Lock Syringe Cap



- One hand cap attachment. Blister pack stabilises the cap on working surface

Red	Code	418012
Blue	Code	418013
Sales Unit		50 x 10

Tamper Evident Syringe Cap



- Tamper-evident syringe cap allows user to determine if Luer Lock syringe has been manipulated
- Especially important when working with cytotoxic drugs, or controlled substances. Two-piece design breaks away upon manipulation
- Less cost when guidelines allow no used drugs to be returned to the pharmacy. Visual inspection confirms that the products have not been used
- One hand cap attachment. Blister pack stabilises cap on working surface

Code	418004
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Sales Unit	50 x 10
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MULTI-AD® Syringe Cap

- Used for capping Luer tip syringes
- 10 per blister pack protects sterility of unopened caps and aids capping

Green

Code	418010
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Sales Unit	50 x 10
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Flexible Syringe Cap

- For capping Luer tip syringes
- 30 per blister pack protects sterility of unopened caps and aids capping

Blue

Code	418202
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Sales Unit	60 x 10
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10. Chemfort™ Closed System Transfer Device

Offering a complete portfolio of products to fit any handling protocol, Chemfort™ helps to protect you at all stages from preparation to administration, and has no known incompatibilities with hazardous drug solvents¹.

Cytotoxic drugs have been in use in oncology practice for decades. Most of them are administered intravenously and require reconstitution, dilution and transfer to IV bags or directly to the patient by syringe injection.

Cytotoxic agents, by nature, are harmful to cancerous cells, yet they also damage healthy cells and tissues. Therefore, pharmacists and nurses who are involved in preparation and administration of chemotherapy as part of their work practice, should take precautions to eliminate or reduce exposure as much as possible².

Chemfort™ is a premium closed membrane to membrane system transfer device (CSTD) that incorporates all of Tevadaptor's demonstrated advantages while offering upgraded materials and improved usability.

Drug containment is accomplished by the TOXI-GUARD® air cleaning system, which contains a 100% activated carbon drug binding matrix³ and 0.2 µm hydrophobic and oleophobic membrane. TOXI-GUARD® air cleaning system is also a sterile barrier helping to prevent micro-organisms and particles from entering the system⁴.

With an improved design and raw material upgrades, Chemfort™ CSTD delivers a new level of efficiency, performance and ease of use. Chemfort™ has been scientifically proven to help protect healthcare professionals when handling antineoplastic and other hazardous drugs^{5,6,7}.

— Chemfort™

Chemfort™ Vial Adaptors



- Connects to a drug vial to allow drug transfer in a closed system
- Automatic pressure equalisation allows drug reconstitution and withdrawal
- Suitable for any volume of vial
- Connect to 13 mm, 20 mm, 28 mm and 32 mm drug vials
- Spike design is highly efficient in extracting maximum drug volume from the vial, leaving minimal residual volume, and therefore reducing drug wastage⁸
- Majority of vial sizes covered with one product*

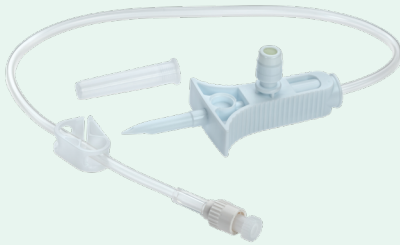
*This refers to the Chemfort™ Vial Adaptor 20 mm that contains a 13 mm convertor.

Chemfort™ Syringe Adaptor Lock



- Fits standard Luer Lock syringes allowing membrane to membrane linear connection and dry disconnection⁹
- Connects to all Chemfort™ products with a "click" sound providing reassurance of a connection
- Allows transfer of drug from the vial to the IV bag or directly to the patient
- 16 G needle for easier withdrawal of viscous drugs
- A unique patented lock system for Luer Lock syringes, that cannot be opened once locked

Chemfort™ Bag Adaptor Luer Lock (LL)



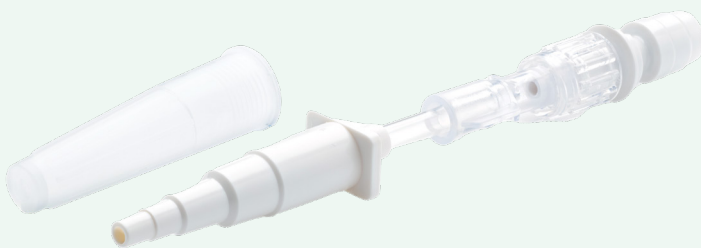
- Fits common available IV bags and semi rigid containers using an ergonomic and comfortable spike design
- Connection to a primary IV set through a Luer Lock connection e.g. Cyto-Set®

Chemfort™ Luer Lock Adaptor



- Converts a Luer Lock connection to a membrane to membrane Chemfort™ connection
- Allows direct drug administration from a syringe to the patient's IV line, catheter or other access points
- Helps prevent leakage and danger of exposure from hazardous drugs
- For multiple administrations with Chemfort™ Syringe Adaptors
- Easy to access and to clean
- Its small size allows comfortable access to the patient's IV line

Chemfort™ is CE and UKCA approved and meets the standards and regulations with regards to the environment.



Simplivia Catheter Adaptor

- A Simplivia product that connects to the Chemfort™ Syringe Adaptor
- For the administration of drugs directly into a urinary catheter
- Converts an open catheter connection to a closed system connection

Helps to prevent needlestick injuries: Chemfort™ complies with the Sharps Directive¹⁰ and the NIOSH Alert on the prevention of needlestick injuries in Health Care Settings¹¹.

11. Ordering Codes

Mini-Spike® 2	NHSSC Code	Code	Sales Unit
Mini-Spike® 2	FSB1735	4550590	50
Mini-Spike® 2 Filter		4550591	50
Mini-Spike® 2 Chemo		4550592	50

Classic Mini-Spike®		Code	Sales Unit
Mini-Spike® Dispensing Pin with SAFSITE® Valve		412000	50
Chemo Dispensing Pin with Distal Mini-Spike® Connector		412014	50
Mini-Spike® IV Additive Dispensing Pin		412012	50
Mini Spike® Micro-Tip		4550510	50
Mini Spike® Filter Micro-Tip		4550528	50
Mini-Spike® Chemo Micro-Tip		4550536	50

Disc Filters	NHSSC Code	Code	Sales Unit
Disk Filter Sterifix® (green) 0.2 µm	FTC143	4099206	50
Disc Filter (clear) 1.2 µm		414995	50

Filter Needles	NHSSC Code	Code	Sales Unit
Filter Needle 19G x 1.5"	FTR276	415030	100
Filter Needle 20G x 1.0"		415035	100
Filter Needle 19G x 1.0"		415040	50
Filter Needle II Removable 5 micron filter		415042	100
Filter Hub	FTC145	418021	100

Micro Pins And Filter Straws	NHSSC Code	Code	Sales Unit
Vented Pin	FSB619	415070	100
Lateral Flow Vented Pin		415072	100
Micro Pin®		415019	100
Filter Straw Needlefree 1.75"	FTC159	415021	50
Filter Straw Needlefree 4"	FTC485	415020	50

Transfer Devices	NHSSC Code	Code	Sales Unit
FDC 1000 Fluid Dispensing Connector	FTC85037	415080	100
Double-ended Transfer Needle		415017	50

Fluid Dispensing	Code	Sales Unit
MULTI-AD® Transfer set	513548	20
MULTI-AD® Fluid Dispensing System	513540	10
MULTI-AD® Fluid Dispensing System	513506	10

Dispensing Pins	NHSSC Code	Code	Sales Unit
Non-vented Dispensing Pin with One-way Valve and SAFSITE® Valve	FSB620	413501	50
Standard Spike Dispensing Pin with SAFSITE® Valve		412006	50
Non-vented Dispensing Pin with One-way Valve		412022	50

11. Ordering Codes

Connectors and Syringe Caps	NHSSC Code	Code	Sales Unit
Combi Stopper (red)	FVD004	4495101	100
Combi Stopper (blue)	FVD007	4495152	100
Combi Stopper (white)	FVD012	4495209	100
MULTI-AD® Luer Lock Syringe Cap (red)		418012	50 x 10
MULTI-AD® Luer Lock Syringe Cap (blue)		418013	50 x 10
Tamper Evident Syringe Cap		418004	50 x 10
MULTI-AD® Syringe Cap		418010	50 x 10
Flexible Syringe Cap (blue)		418202	60 x 10

Chemfort™	NHSSC Code	Code	Sales Unit
Chemfort™ 20 mm Vial Adaptor With 13 mm Convertor	FSW1693	MG-245248	50
Chemfort™ Luer Lock Adaptor	FSW1700	MG-245250	100
Chemfort™ Bag Adaptor CP - Closed Port	FSW1685	MG-245252	100
Chemfort™ Closed Adaptor SP - Spike Port	FSW1686	MG-245254	100
Chemfort™ 28 mm Vial Adaptor	FSW1692	MG-245266	20
Chemfort™ 32 mm Vial Adaptor	FSW1694	MG-245269	25
Chemfort™ Syringe Adaptor Lock	FSW1696	MG-245277	50
Chemfort™ Bag Adaptor LL PVC Free	FSW1690	MG-245279	50



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References

1. Chemfort data on file, White paper, Compatibility with All Known Hazardous Drugs
2. <https://www.cdc.gov/niosh/docket/review/docket233c/pdfs/DRAFT-NIOSH-Hazardous-Drugs-List-2020.pdf>
3. Flexzorb™ Activated Carbon Cloth, Chemviron Carbon, Cloth Division, United Kingdom, <https://www.chemviron.eu/products/activated-carbon/activated-carbon-cloth/>
4. Amichay M. et al., Prevention of coronavirus contamination from the environment using an air-cleaning closed system drug-transfer device, *Pharmacy Practice* 2021 Oct-Dec;19(4)
5. P. Sessink et al., Validation of chemotherapy drug vapor containment of an air cleaning closed-system drug transfer device, *Journal of Oncology Pharmacy Practice*, 2022 Oct; 28(7):1508-1515
6. Wilkinson A.S., Allwood MC, et al., Performance testing protocol for closed-system transfer devices used during pharmacy compounding and administration of hazardous drugs. *PLoS ONE* 13(10) : e0205263, Oct 2018
7. Chemfort data on file, Study 189, March 2018
8. Juhász, Á., Batka, G. & Szűcs, A. Responding to drug shortages and rising costs: IV chemotherapy drug use optimization achieved by closed safety devices in hospital pharmacies. *Drugs Ther Perspect* 32, 170–176 (2016).
9. T. Marler-Hausen et al, 2020, Use of a closed-system drug transfer device reduces contamination with doxorubicin during bolus injection, *British Journal of Nursing*, 2020, Vol 29, No 10
10. Sharps Directive – Council Directive 2010/32/EU of 10 May 2010, implementing the Framework. Agreement on prevention from sharp injuries in the hospital and healthcare sector conducted by HOSPEEM and EPSU, *Official Journal of the European Union*, 2010, L 134/66–72.
11. <https://www.cdc.gov/niosh/docs/2000-108/pdfs/2000-108.pdf?id=10.26616/NIOSH PUB2000108>



Chemfort® is manufactured by Simplivia Healthcare Ltd.