



**Adelphi Healthcare Packaging**  
*Primary Packaging Specialists*

adding our  
personal touch



# We're here to help!

Our years of experience ensure a highly competent, creative and customer-focused service, whatever the size and the nature of your requirement.

Whether you require advice on what packaging to specify from day one, or just want to meet up for a chat about how your business is progressing and how we can assist you with its further growth, we are always happy to drop by.

## We enjoy a challenge

Whilst we are principally a stockist of primary packaging, we also have other strings to our bow... as experts in our field (which is your field) we welcome hearing about your projects as well as helping you solve any issues you may be encountering. Our aim is to provide solutions that satisfy your needs, whether direct from stock or through our extensive knowledge of the marketplace.

## We keep you informed

We like to keep pace with the consistently evolving market place and also to keep you up-to-date through introducing you to the latest developments in both existing technologies and innovative systems that can help you stand out within your industry.

## We are honest

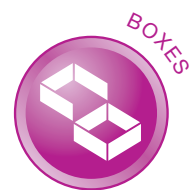
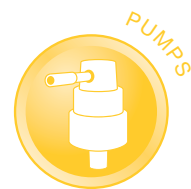
Sounds like everyone would say that wouldn't they? Well, not always. If we can help and have a product that is just right for you we will tell you. If there are any compromises, we will discuss them with you, and if there is a more suitable solution someone else has available, we will happily send you to the people who are best placed to help. This openness is because we can only develop a long term relationship based on trust. Trust that we are always working in your best interests.

## We stick around

Our customers are our livelihood and so we make sure that you are continually satisfied! We need you and we're not embarrassed to say that. We go out of our way to make sure you get what you need because a long and healthy business relationship means successful business for both of us.

You are the reason why we are successful and we like to think that we have a part in your success too!

## We are happy to provide you with references



# What do we do?

Here at Adelphi Healthcare Packaging we've been supplying and supporting the Pharmaceutical, R&D, Biotech, Cosmetic, Veterinary and associated industries since 1970.

Our wealth of knowledge has proved essential to the success of many of our customers' projects, as has our stock holding and flexible delivery terms. From our stock range we aim to deliver your order within 48hrs and are able to supply anything from individual pack sizes up to millions of units!

Our partners and suppliers are some of world's leading pharmaceutical container, closure and dispensing systems manufacturers, and as their UK and European representatives we invariably act as the catalyst between you and the manufacturer to ensure that the quality of the product and it's suitability for purpose is only rivalled by the quality of our service.

Our deep rooted history in the industry, and our partnerships with leading global manufacturers, means that you can be confident in our ability to fulfil your needs.

**Knowledge, Quality, Service,  
Expertise, Availability – the  
Adelphi difference!**



# All your primary packaging needs satisfied consistently from one supplier

With our technical guidance and quality products available directly from stock, with the appropriate documentation and certificates sent as standard, we can help to ensure you don't run into any hurdles whilst bringing your product to market... and with our expert knowledge we can help you get it there faster too!

## Closures

- Rubber Stoppers
- Aluminium Crimp Seals
- Screw Caps

## Containers

- Glass Vials
- Collapsible Tubes
- Plastic Bottles
- Ampoules
- Glass Bottles

## Dispensing Systems

- Pre-fillable Syringes
- Oral Dosing Pipettes
- Pumps
- Dropper Systems
- Transfer & Reconstitution Systems





# Injection Vials / Freeze Drying Vials

## Tubular Type I Glass Vials

Tubular glass vials are manufactured by SCHOTT Pharmaceutical Packaging from SCHOTT Fiolax® Neutral Type I glass tubing. Vials can be manufactured to your precise specification for viable production runs.

### Clear Vials/ISO 8362-1

Ref	Size	Brimful	a	b	c	e	m
VCDIN2R	2ml	4ml	16.0	35.0	13	7.0	22
VCDIN4R	4ml	6ml	16.0	45.0	13	7.0	32
VCDIN6R	6ml	10ml	22.0	40.0	20	12.6	27
VCDIN8R	8ml	11.5ml	22.0	45.0	20	12.6	32
VCDIN10R	10ml	13.5ml	24.0	45.0	20	12.6	31
VCDIN15R	15ml	19ml	24.0	60.0	20	12.6	46
VCDIN20R	20ml	26ml	30.0	55.0	20	12.6	35
VCDIN30R	30ml	37.5ml	30.0	75.0	20	12.6	55

### Clear Vials

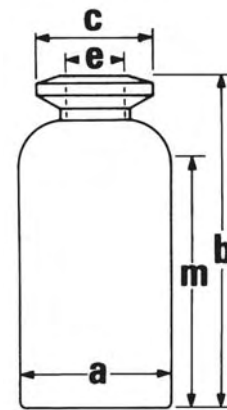
Ref	Size	Brimful	a	b	c	e	m
VC002-13C	2ml	3.8ml	14.25	39.5	13	7.0	26
VC005-20C	5ml	9.7ml	22.25	38.0	20	12.75	24.5
VC010-20C	10ml	14ml	24.25	46.0	20	12.75	32
VC020-20C	20ml	26.5ml	29.25	56.0	20	12.75	38
VCT050-20CT	50ml	65ml	42.5	68.0	20	12.6	42
VCT100-20C	100ml	125ml	47.0	100.0	20	12.6	75.3

### Amber Vials/ISO 8362-1

Ref	Size	Brimful	a	b	c	e	m
VADIN2R	2ml	4ml	16.0	35.0	13	7.0	22
VADIN6R	6ml	10ml	22.0	40.0	20	12.6	27
VADIN10R	10ml	13.5ml	24.0	45.0	20	12.6	31
VADIN20R	20ml	26ml	30.0	55.0	20	12.6	35
VADIN30R	30ml	37.5ml	30.0	75.0	20	12.6	55
VAT050-20C*	50ml	65ml	42.5	68.0	20	12.6	42

\* 50ml non-ISO as no standard exists for this size.  
Dimensions in "mm" for reference purposes only. Capacities nominal.

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## Moulded Type I Glass Vials

Moulded Type I Glass Injection/Freeze Drying Vials, ISO 8362-4

### Clear & Amber Vials

Ref	Size	Brimful	a	b	c	e	m
V*M010-20C	10ml	15ml	25.4	53.5	20	12.6	35.3
V*M020-20C	20ml	26ml	32.0	58.0	20	12.6	36.1
V*030-20C	30ml	38ml	36.0	62.8	20	12.6	41.3
V*050-20C	50ml	60ml	42.5	73.0	20	12.6	46.0
V*100-20C	100ml	119ml	51.6	94.5	20	12.6	58.0
VC200-20C	200ml	246ml	65.0	114.5	20	12.6	76.0

Dimensions in "mm" for reference purposes only. Capacities nominal.

\* Available in Clear C or Amber A glass





# Rubber Stoppers

Adelphi stock rubber stoppers manufactured by West Pharmaceutical Services including injection stoppers and lyophilisation stoppers to suit 13mm, 20mm and 32mm necked vials and bottles.

## Rubber stoppers

A	INJW13RtS	13mm injection, 4023/50 grey, bromobutyl
B	INJW20RtS	20mm injection, 4023/50 grey, bromobutyl
C	INJW20S	20mm silicone, 8763/40 transparent
D	INJ20WC	20mm injection, 4601/45 white, chlorobutyl
E	FDW13WRS	13mm lyophilisation, igloo, 4023/50 grey, bromobutyl
F	FDW20RtS	20mm lyophilisation, igloo, 4023/50 grey, bromobutyl
G	INJW32G2RtS	32mm infusion, 4023/50 grey, bromobutyl



## 'New Generation' Flurotec® Rubber Stoppers

A	INJ13TB3WRS	13 mm injection Flurotec®, Daikyo fluoro resin D, B2-40, Westar® RS	4023/50 bromobutyl grey
B	INJ20TB3WRS	20 mm injection Flurotec®, Daikyo fluoro resin D, B2-40, Westar® RS	4023/50 bromobutyl grey
C	FD13TT3WRS	13 mm lyophilisation Flurotec®, Daikyo fluoro resin D (top and bottom), Westar® RS	4023/50 bromobutyl grey
D	FD20TT3WRS	20 mm lyophilisation Flurotec®, Daikyo fluoro resin D (top and bottom), Westar® RS	4023/50 bromobutyl grey

## Flurotec® Rubber Stoppers

E	INJ13TBWRS	13 mm injection, Flurotec Plus®, B2-40, Westar® RS	4110/40 chlorobutyl grey
F	INJ20TBWRS	20 mm injection, Flurotec Plus®, B2-40, Westar® RS	4110/40 chlorobutyl grey
G	FD13TBRtS	13 mm lyophilisation, Flurotec®, Daikyo fluoro resin D, B2-40, RTS™	D713 butyl grey
H	FD20TBRtS	20 mm lyophilisation, Flurotec®, Daikyo fluoro resin D, B2-40, RTS™	D713 butyl grey

**Flurotec®** is a fluorocarbon film applied to stoppers to reduce sorption of the drug product, a significant benefit for maintaining the full strength and shelf-life of high potency/low concentration biotech drug products.

Using a stopper with Flurotec® barrier film can reduce the risk of loss caused when active ingredients, preservatives, stabilisers and buffer systems extracting materials from the elastomer, resulting in aggregation and drug degradation that can cause protein unfolding.

West **Ready to Sterilise** (RTS) and **Westar® RS** (FDA validated process) components undergo a final rinse in WFI and are packed in an ISO class 5 cleanroom into a **STERILIZABLEBAG™**.

**Sterile** ready to use INJ20TB3WRS and INJ13TB3WRS Flurotec® coated stoppers are available from stock, with other stoppers available sterile to order.

**B2-40 coating** is a cross-linked silicone coating applied to the top surface of the rubber stopper. The B2-40 coating provides excellent machineability whilst minimising the transfer of silicone oil into drug solutions.





# Aluminium Seals

Aluminium crimp seal manufactured by West Pharmaceutical Services including seals with plastic discs, all aluminium seals and sterilised seals to suit 13mm, 20mm and 32mm necked vials and bottles.

## Aluminium Seals with Plastic Discs

Aluminium seals with plastic discs include - West's Flip-Off® Seals, Flip Tear Up and Flip Off Tear Off (FOTO) varieties in a range of colours (check availability of colours not shown).



Ref	Description
A FOT13	13 mm Flip Off*
B FOT20	20 mm Flip Off*
C FOT13	13mm Flip Off No Text (FDA compliant)*
D FOT20	20mm Flip Off No Text (FDA compliant)*
E FTU13	13 mm Flip Tear Up**
F FTU20	20 mm Flip Tear Up**
G FOTO20	20 mm Flip Off Tear Off***
H FTR32	32 mm FTR***

- \* A seal with a plastic Flip Off button that must be activated to expose the injection site
- \*\* A seal with a plastic button attached to help facilitate the activation and complete removal of the seal from the container
- \*\*\* A seal combining the features of the Flip Off Seal with the complete removability of the tear off seal



## CCS Crimp Seals

West's Flip-Off® CCS (Clean, Certified, Sterilised) seals with white PP discs are available in 13mm and 20mm sizes from stock in bags of 1,000 units. These sterilised CCS aluminium seals are ideal for use in aseptic operations as they are certified for bioburden and cleanliness. Other disc colours and packaging units are available upon request.



## Aluminium Seals

All aluminium crimp seals manufactured by West are available in 13mm and 20mm sizes. All aluminium crimps include Centre Hole, Centre Tear and Complete Tear Off varieties and in a range of colours. These seals can offer tamper evidence as well as ease of access to the injection site of rubber stoppers (check availability of colours not shown).



Ref	Description
A CEHW20	20 mm Centre Hole *
B CEHW13	13 mm Centre Hole *
C CETW20	20 mm Centre Tear Off **
D CETW13	13 mm Centre Tear Off **
E COTW20	20 mm Complete Tear Off ***
F COUTW13	13 mm Complete Tear Off ***
G COT20HT	20 mm Complete Tear Off ****

- \* An aluminium shell with the central target area exposed
- \*\* A seal with a bridged Tear Out tab protecting the target area that must be removed to expose the injection site
- \*\*\* A seal with a Tear Out tab that allows the complete removal of the closure prior to or after use
- \*\*\*\* A hemmed tab seal that once removed reveals an aluminium disc which covers the entire surface of the stopper, offering greater protection from stopper contamination.





# Diagnostic Vials & Closure Systems

Clear and amber neutral Type I glass vials manufactured by SCHOTT Pharmaceutical Packaging from SCHOTT Fiolax® Neutral Type I glass tubing. Vials can be manufactured to your precise specifications for viable production runs.

## Tubular Type I Glass Vials

### Clear Vials

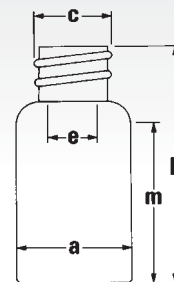
Ref	Size	a	b	c	e	m
VCD003	3ml	18.0	36.0	14	8.6	22.3
VCD005	5ml	18.0	41.5	14	8.6	27.7
F-3059	7ml	22.0	40.0	18	11.5	23.7
VCD010	10ml	23.75	48.0	18	11.5	30.6

### Amber Vials

Ref	Size	a	b	c	e	m
VAD003	3ml	18.0	36.0	14	8.6	22.3
VAD005	5ml	18.0	41.5	14	8.6	27.7
1009754	7ml	22.0	40.0	18	11.6	23.2
VADDIN010	10ml	24.0	45.0	18	11.5	29.0
VAD010S22	10ml	28.0	55.0	22	15.2	35.0
VAD030S22	30ml	33.5	67.0	22	15.2	46.0

Dimensions in "mm" for reference purposes only. Capacities nominal.

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## Rubber Stoppers

Ref	Description
A SDIA14GRS	14mm DIN plug, 4023/50 grey, bromobutyl
B FDIA14WG/B	14mm DIN lyophilisation, W1816 grey, bromobutyl
C SDIA18RTS	18mm DIN plug, PH701/40 wine red, chlorobutyl
D FDIA18W/B	18mm DIN lyophilisation, PH701/40 wine red, chlorobutyl
E FDIA18WG/B	18mm DIN lyophilisation, W1816 grey, bromobutyl
F SDIA22	22mm DIN plug, PH701/40 wine red, chlorobutyl
G FDIA22	22mm DIN lyophilisation, PH701/40 wine red, chlorobutyl

**West**



## Screw Caps

A wide range of screw caps in a large variety of colours available directly from stock.

Type	Description
A GL14 smooth	Unwadded, plug seal
B GL14 8 ribbed	Unwadded, plug seal, EPE wadded, PTFE wadded
C GL18	Unwadded, plug seal, EPE wadded, PTFE wadded
D GL22	Unwadded, plug seal, EPE wadded, PTFE wadded

**Materials:** Polypropylene, High Density Polyethylene, POCAN (PBT high heat resistance), **Colours:** Many colours such as red, blue, yellow, green, black, purple, orange and brown are stocked. Please check availability.



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# Ampoules / Ampoule Boxes

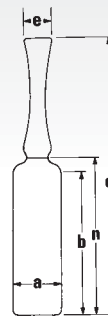
Open and closed ampoules manufactured by SCHOTT Pharmaceutical Packaging according to ISO 9187-1:2010. Manufactured from SCHOTT Fiolax® Neutral Type I glass tubing, with Colourbreak or OPC (One Point Cut) for easy opening. Ampoules can be printed and manufactured to your precise specification for viable production runs.

## Open Type I Glass Ampoules

\* C = Clear glass A = Amber glass

Ref	Size	*	a	b	d	e	n
AIO*001	1ml	C/A	10.75	21.0	60.0	8.0	25.5
AIO*002	2ml	C/A	10.75	33.0	72.0	8.0	37.5
AIO*005	5ml	C/A	14.75	41.0	83.0	9.0	46.5
AIO*010	10ml	C/A	17.75	55.0	102.0	9.5	62.0
AIO*020	20ml	C	22.50	65.0	113.0	11.0	76.0
AO*050	50ml	C	27.50	107.0	170.0	12.0	116.5

Dimensions in "mm" for reference purposes only. Capacities nominal.



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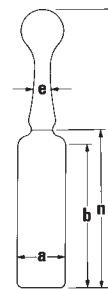


## Closed Type I Glass Ampoules

\* A = Amber glass, white Colourbreak C = Clear glass, white Colourbreak  
AF = Amber glass, OPC white dot CF = Clear glass, OPC red dot

Ref	Size	*	a	b	d	e	n
AIC*001	1ml	C/AF/CF	10.75	21.0	70.0	6.0	25.5
AIC*002	2ml	C/AF/CF	10.75	33.0	83.0	6.0	37.5
AIC*005	5ml	A/C/AF/CF	14.75	41.0	95.0	7.0	46.5
AIC*010	10ml	A/C/CF	17.75	55.0	112.0	7.1	62.0
AIC*020	20ml	C	22.50	65.0	126.0	7.8	76.0
AIC*025	25ml	C	22.50	80.0	141.0	7.8	91.0

Dimensions in "mm" for reference purposes only. Capacities nominal.



### One Point Cut (OPC) benefits over Colourbreak opening system:

- Tighter limits for breakforce and more consistent results for easier and safer opening
- Cleaner break aspect with no enamel particles able to contaminate the product
- The standard for the major pharma companies in Europe

## Ampoule Boxes

Every ampoule is firmly gripped in a vacuum formed plastic fitment. The one piece design ensures that lids bearing instructions do not become parted from their contents.

### Ampoule boxes

Size	Ref	Size	Ref
BO001	5 x 1ml	BO005	10 x 1ml
BO002	5 x 2ml	BO006	10 x 2ml
BO003	5 x 5ml	BO007	10 x 5ml
BO004	5 x 10ml	BO009*	10 x 10ml
		BO008*	10 x 20ml

\* Boxes fitted with card fitment





## All Purpose Dispensing (APD) Boxes

Suitable for powders, tablets, ointments and creams. Extra protection is provided courtesy of a polyethylene barrier sandwiched between the paperboard outer, and the parchment inner.

Ref	Size	Description	Internal Diameter	External Height
ACDH	14ml	½ oz cut-down	35mm	21mm
ADH	20ml	½ oz deep	35mm	27mm
ACD1	26ml	1oz cut-down	41mm	25mm
AD1	40ml	1oz deep	41mm	37mm
ACD2	54ml	2oz cut-down	51mm	31mm
AD2	77ml	2oz deep	51mm	45mm
AD4	162ml	4oz deep	62mm	56mm

Dimensions in "mm" for reference purposes only. Capacities nominal.



## Vial Boxes

We offer a range of boxes with a minimum order quantity of only 100 units, suitable for use with any number of vials, ampoules, dropper bottles etc.

Bespoke boxes are designed and manufactured to your exact specifications which make them especially useful for testing kits where a number of different products need to be supplied in one convenient package.

Boxes can be produced with your requested colours and designs, which can include instructions on use as well as your logo displayed on the packaging.

### Options include:

- Hinged or loose lid
- Card or vacuum formed fitments
- A wide variety of coloured or textured coverings





# Speciality Vials/Coated Vials

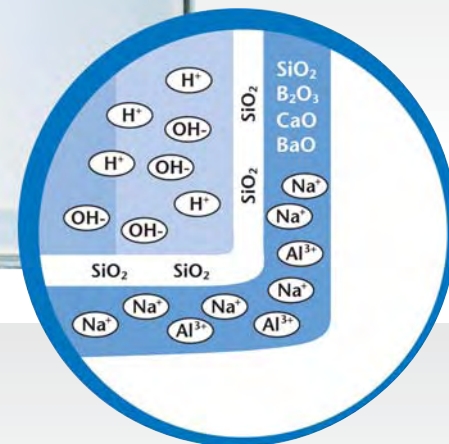
## SCHOTT Type I Plus® Vials

SCHOTT Type I Plus® containers have surface properties like quartz: purity and inertness. Type I Plus® containers can be washed, depyrogenated, filled, closed, inspected and sterilised just like standard containers and are particularly suitable for products where conventional containers made of pharmaceutical Type I glass have reached their limits, such as with:

- Low concentrated proteins with adsorption tendencies
- High pH products
- Preparations which cannot tolerate a pH shift or ion leaching
- Formulations that react with metal ions
- Preparations with degradation tendencies
- Formulations containing complexing agents e.g. citrates, EDTA
- Radioactive diagnostics

Available in sizes from 2ml - 100ml.

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## SCHOTT TopLyo™ Vials

SCHOTT TopLyo™ vials are coated internally with a hydrophobic layer and have an improved geometric design which optimises the lyophilisation process.

Vials that feature these hydrophobic coatings have such homogeneous surfaces that lyophilised substances find it difficult to adhere to the inside walls facilitating an elegant lyophilisation cake and easy emptying of the residual volume after reconstitution.

Available in a range of sizes.

## SCHOTT TopYield™ Vials

SCHOTT TopYield™ vials are internally coated with a chemically bonded hydrophobic layer to ensure maximum aspiration of the contained product.

These vials are recommended for high value, low concentration drug products to ensure that none of the product is left on the surface of the vial after aspiration with a needle, therefore reducing the need for overfill.

Available in a range of sizes

## Siliconised Vials

Neutral Type I glass vials manufactured by SCHOTT Pharmaceutical Packaging from Fiolax® tubing, internally coated with polymerised silicone, which reduces surface tension thereby enhancing product recovery from the vial.

Available in clear and amber glass and in a range of sizes and neck finishes.

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# Sterile Vials

## Pyrofree® Sterile Open Vials

SCHOTT Fiolax Type I glass vials are processed by Disposable-Lab under cGMP conditions to produce Pyrofree® sterile open vials, which are supplied with full sterility, endotoxin free and particulate certification.



Your choice of SCHOTT Type I glass injection vial is washed with WFI then vacuum packed into two layers of PEEK polymer, depyrogenated and then vacuum sealed into a PE/EVOH/PA protective outer layer.

2ml and 10ml Pyrofree® vials are available from stock with any size from 2ml-50ml produced to order.

Sterile rubber stoppers and aluminium crimp seals are also available from stock.



\* Sterile packed West FluroTec stoppers

## Internally Sterile Vials

Internally sterile apyrogenic and particle free neutral Type I glass vials manufactured by SCHOTT Pharmaceutical Packaging from Fiolax® tubing, with an inert internal Nitrogen atmosphere.

Sterile Vials are produced in accordance with the ISO 13485:2003 quality system, CE marked and supplied with a comprehensive batch record and certificate of analysis.

Stock size 2ml & 10ml vials with other sizes up to 200ml produced to order, with your choice of rubber stopper and aluminium seal.

Sterile rubber stoppers and aluminium crimp seals are also available from stock.





# Plastic Bottles

## PE Bottles

Bottles are suitable for use with pump systems.

### Screw Neck Bottles

ref	ml	ml	mm	mm	mm
35 101	10	14.4	17.8	50.0	23.6
35 051	15	17.2	17.8	58.5	23.6
35 102	20	24.0	17.8	57.0	28.0
35 095	30	34.0	17.8	69.0	31.0
35 103	50	56.0	17.8	85.4	35.0
45 050	50	58.0	20.0	85.4	35.0
35 086	100	108.0	17.8	108.5	42.0
92 265	Screw Cap				

### Crimp and Snap Neck Bottles

ref	Description	ml	mm	mm	mm
35 157	10ml crimp FEA	16.5	20.0	49.0	25.5
35 247	10ml crimp/snap DIN	16.5	20.1	49.0	25.5
35 224	12ml snap AP	17.0	19.8	53.0	24.0
35 184	15ml crimp FEA	19.5	20.0	54.4	25.5
35 210	15ml crimp/snap PFS	19.7	20.0	55.3	25.5
35 258	15ml snap AP	19.1	19.8	54.2	25.5
35 105	20ml crimp FEA	25.0	20.0	50.5	31.0
35 222	20ml crimp/snap DIN	25.2	20.1	50.7	31.0
35 106	30ml crimp FEA	34.8	20.0	65.0	31.0
35 218	30ml crimp/snap PFS	34.7	20.0	65.0	31.0
35 228	30ml snap AP	34.7	19.8	65.0	31.0
35 054	50ml crimp/snap DIN	60.0	20.1	85.4	35.0
35 248	50ml snap AP	60.9	19.8	85.4	35.0

Dimensions in "mm" for reference purposes only. Capacities nominal.

LDPE & HDPE pharmaceutical bottles produced by Medisize through injection blow moulding and sealed in PE bags under cleanroom conditions, ISO class 8 with laminar flow class 5.

All components can be supplied sterile subject to viable minimum order quantities.



## Dropper Bottles

Available from 5ml to 50ml in white or natural and are available with Tamper Evident caps. Other coloured bottles and caps are available for viable production runs.

ref	ml	ml	ml	mm	mm	mm
35 269	3	6.4	21.0	KS 14 x 2.5 mm	37.0	49.90
35 017	5	8.4	21.0	KS 14 x 2.5 mm	44.0	57.80
35 018	10	12.1	24.0	KS 14 x 2.5 mm	50.0	63.40
35 020	15	18.2	25.0	KS 14 x 2.5 mm	62.0	75.40
35 072	20	24.0	28.0	KS 14 x 2.5 mm	63.5	77.34
35 021	30	34.5	30.0	KS 14 x 2.5 mm	76.5	89.60
35 071	50	59.0	35.0	KS 14 x 2.5 mm	89.5	104.00
6504	Tamper Evident Cap					
92 236	0.03ml Dropper Nozzle					
92 279	0.05ml Dropper Nozzle					

Dimensions in "mm" for reference purposes only. Capacities nominal.





# Kylix Glass & Liquida PET Bottles

## Kylix Bottles

Type III clear and amber glass bottles from stock, all with PP28 neck finish. The Kylix bottles are produced by press-and-blow moulding technology, affording a lighter, yet stronger bottle due to improved glass distribution. Kylix bottles are supplied in hygienic shrink-wrapped packs and with certification. \* C = Clear A = Amber

ref	ml	ml	g		mm	mm
KA0015	15	22	35	PP28	52.1	33.0
K*0030	30	37	39	PP28	67.0	35.0
K*0060	60	67.5	53	PP28	94.0	38.6
K*0090	90	97.5	69	PP28	103.0	43.9
K*0100	100	108	70	PP28	104.8	46.1
K*0125	125	133.5	79	PP28	114.4	49.0
K*0150	150	158	100	PP28	122.8	51.6
K*0200	200	209	115	PP28	133.3	57.0
K*0250	250	260	146	PP28	142.9	61.7
K*0300	300	315	170	PP28	151.3	65.6
KC0500	500	512	305	PP28	190.0	76.0
KA0500	500	528	240	PP28	176.8	76.8
K*1000	1000	1021	470	PP28	217.0	97.5

Dimensions in "mm" for reference purposes only. Capacities nominal.



## Liquida PET Bottles

Injection stretch blow moulded PET containers with PP28 thread and special drip-free pouring neck. Manufactured from amber or clear PET by Medisize. Subject to availability and viable minimum order quantity.

ref	ml	ml		mm	mm
35107	50	66	PP28	87.3	38.0
35168	100	115	PP28	116.0	40.0
35108	125	135	PP28	113.0	46.1
35109	150	158	PP28	119.0	49.3
35110	200	210	PP28	119.0	57.0
35115	250	262	PP28	139.0	58.5
35113	300	322	PP28	155.0	60.5
35112	500	525	PP28	182.5	70.8

Dimensions in "mm" for reference purposes only. Capacities nominal.

**Phillips Medisize**  
Partnerships Built on Innovation



## PP28 Closures

Ref.	Description
A 6-4418	Tamper evident, child resistant, EPE wadded
B 5-4418	Tamper evident, EPE wadded (unwadded available)
C HTEC28TWWB	Tamper evident, PTFE wadded
D PP28	Tamper evident, PE plug seal
E PS356	Aluminium, wadless
F SW27	Silicone wad (for use with PS356)
G INJ28V *	Chlorobutyl rubber stopper



\* Not suitable for Liquida PET bottles



# Collapsible Tubes

## Aluminium Tubes

Internally lacquered, white enamelled aluminium collapsible tubes manufactured by Linhardt.

Tubes are also available in capacities **2ml to 250ml** printed (up to 7 colours), with a variety of closure and nozzle options as well as latex end seals. Availability subject to minimum production quantities.

### Aluminium Tubes - Stock sizes

Ref	Capacity (ml)	Size (mm)	Orifice size (mm)	Nozzle	Style of Cap
TL001	5	13.5 x 55	1.5 <sup>1)</sup>	–	A
TLM002	15	16 x 101	3.5 <sup>2)</sup>	M7	B
TLM003	20	19 x 101	5.5 <sup>2)</sup>	M9	B
TLM004	28	22 x 101	5.5 <sup>2)</sup>	M9	B
TLM005	56	25 x 140	5.5 <sup>2)</sup>	M9	B
TL007	112	35 x 160	7.0 <sup>2)</sup>	M11	B

Dimensions in “mm” for reference purposes only. Capacities nominal.

<sup>1)</sup> Eye ointment tube with plastic elongated nozzle

<sup>2)</sup> Membrane nozzle

Cap style: A = Elongated White HDPE    B = Short White HDPE  
Flowerpot Piercer



## Plastic Tubes

We are able to supply high quality plastic tubes with a large variety of closure options and totally customisable print to suit your needs, directly from our manufacturer Linhardt.

Linhardt manufacture on high speed production lines at their Hambrücken factory and are able to produce tubes for volumes ranging from **3ml to 250ml**.

**Available Diameters (mm)** – 13.5, 16, 19, 22, 25, 30, 35, 40, 50

**Material Options** – LLDPE, LDPE, HDPE in mono or Co-Ex, PCR

**Print Options** – Silk Screen 6 Colour, Offset 7 Colour and Foil Blocking



## Multiflex-Tubes®

The unique Linhardt Multiflex-Tube® offers all the advantages of a laminate tube without any of the disadvantages. Contrary to the lamination process there are no distinctive weld seams since the layers are not overlap-welded, but fused bluntly and reinforced with an ultra thin transparent plastic strip.

**The benefits of Multiflex-Tube® over a standard laminate or extruded plastic tube are:**

- Excellent barrier and compatibility properties through functional layers
- Many decoration options: 360° decoration, metallic finishes, flat printing, embossing, holograms, soft touch, iridescent surfaces
- RFID





# Atomisers & Pumps

Atomisers and pumps manufactured by Aero Pump for the pharmaceutical and cosmetic industries.

Aero Pump manufactures in a state of the art purpose built factory and produces under ISO Class 7 cleanroom conditions.

Aero Pump's modular systems allows for similar pump components to be used on different closure sizes with varying dosages, which means greater flexibility and reduced costs.

**Aero Pump is able to offer pumps for various applications including nasal, throat and ear sprays.**

The use of high-quality and approved raw materials in combination with a flexible assembly technology always guarantees a constant quality from small to large orders.

- Spray patterns and droplet sizes are adaptable to customers' needs.
- Airless and preservative free systems are also available.



## Nasal Pumps

Suitable for nasal applications.

Neck finishes available:  
Snap-on, screw and crimp

**Available in a range of dose sizes**



## Horizontal Pumps

Suitable for topical and sublingual applications.

Neck finishes available:  
Snap-on, screw and crimp

**Available in a range of dose sizes**



## Buccal & Optological Pumps

The elongated nozzle enables precise application of the product to the back of the throat or inner ear.

Neck finishes available:  
Snap-on and screw

**Available in a range of dose sizes**



## UpSideDown Pumps

The UpSideDown pump is able to dispense a consistent dose whilst in an upright and an upside down position.

Neck finishes available:  
Snap-on and screw

**Available with a standard dose of 0.14ml**







# Dosing Pipettes & Applicators

Dosing pipettes, applicators and related accessories,  
produced by elm-plastic GmbH.

Founded in 1969, elm-plastic supplies the pharmaceutical, veterinary and associated industries with its whole range of products. The main reasons for elm's success is its core strengths of outstanding quality and excellent customer service as well as the fact that it has its own mould shop, making it highly flexible, independent and responsive to customer needs.

All processes – manufacturing, printing, assembly and packing – are carried out under clean room conditions and in accordance with GMP.

elm-plastic is certified according to EN ISO 9001, EN ISO 13485.

## Dosing Pipettes



elm-plastic products include:

- Oral Dosing Pipettes (the largest range of its type in the market place)
- Short Form Pipettes
- Applicators
- Udder Injectors
- Adaptors and other related products and accessories

## Shortform Pipettes



Scaling and printing of the pipettes and syringes can be matched to your exact requirements.

## Udder Injectors





# Transfer & Reconstitution Devices

Stock range of drug reconstitution, mixing and transfer systems which enhance the delivery of drugs through advanced technologies. The adaptors are moulded from medical-grade polycarbonate and are compatible with Luer slip and lock syringes.

## Benefits of these devices:

- Easy to use
- Help promote safety and compliance
- Do not require changes to drug manufacturing processes
- The systems work on existing drug vials – there is no need for expensive re-registration or capital investment
- Reducing needle stick injuries to both patients and operatives



## Vial Adaptors – 13mm & 20mm

Enable the safe and rapid transfer and reconstitution of drugs between vials and syringes and enable optimal aspiration of mixed and reconstituted drugs.

Vial adaptors pierce the rubber stopper and allow the drug contained in the vial to be withdrawn into a syringe without the use of a needle.

Adaptors with vented valves and in-built filters are also available.



## Ampoule Adaptors

Safe and quick aspiration of a liquid from a glass ampoule into a syringe without the use of a needle, which reduces the number of needles required, increases the speed of drug delivery to patient and the adaptor also filters any glass particles from the product.



## Multidose Vial Adaptors – 13mm & 20mm

Multidose vial adaptors enable the safe, rapid transfer and reconstitution of drugs between vial and syringe on a multi use basis through the addition of a medical grade silicone rubber valve with luer-compatible connector, which ensures sterility for repeat vial access.

The swabable connections make it ideal for vaccination purposes.



## Mix2Vial®

The Mix2Vial needleless system enables simple, fast, vial-to-vial transfer and mixing between two vials for the reconstitution of lyophilised drug products. The reconstituted drug is available for immediate aspiration into a syringe ready for injection. The system is also available with an in-line filter and in a range of options to suit 20mm and 13mm needs.

## Mix2Vial system attributes:

- Vacuum powered
- Easy to use
- Rapid transfer
- No repeat piercing





# Infusion Bottles

## Type I & Type II Glass Infusion Bottles

Manufactured according to ISO 8536 and DIN 58363 with 32mm crimp neck, packed in shrink-wrapped hygiene bricks. Available in both Type I and Type II glass, clear and amber, plain and graduated.

Sizes from 50ml - 1000ml. Availability depends on specification and required quantity.



Stoppers and Seals available from stock to suit the 32mm neck finish.



# Dropper Packs

## SCHOTT Pharmaceutical Packaging Screw Neck Vials and Dropper Assemblies

**SCHOTT**  
glass made of ideas

We stock a range of different volume screw neck vials with various suitable dropper assemblies and are able to have bespoke droppers and vials made to your requirements for viable production runs.

### Droppers can be supplied with:

- Siliconised pipettes, Type I and III glass and plastic
- Tamper evident caps
- Customised drop size
- Variety of tip designs
- Sterile or ready to sterilise





**Adelphi Healthcare Packaging**  
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