

INTRAVASCULAR THERAPIES

ELASTOMERICS

Accufuser[®]

PRODUCT GUIDE



Value Life

WHY CHOOSE VYGON?

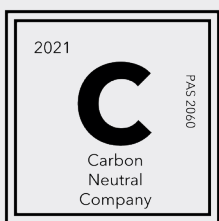


**OVER
60
YEARS
EXPERIENCE**

PATIENT CARE LIES AT THE HEART OF WHAT WE DO



**CLINICAL
EXPERTISE**



WE ARE A
**CARBON
NEUTRAL
COMPANY**

MORE THAN
100 MILLION
PRODUCTS IN
110 COUNTRIES



CONTENTS

Why choose Vygon? _____	2
Accufuser® _____	3
Design _____	4-5
Ease of use _____	5-8
Value based procurement pilot _____	9
References _____	10
Full product range and ordering codes _____	11

OUR SERVICE OFFERING



Customer Service & Technical Support

Talk through your enquiry with our dedicated Teams.



Education & Training

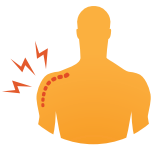
We offer our customers a variety of valuable and comprehensive training options to help you, and your teams, meet your training requirements.

Accufuser®

SINGLE-USE SILICONE BALLOON INFUSION PUMP

THE BEST CHOICE FOR SIMPLE, ACCURATE AND SAFE INFUSIONS USING INTEGRATED UV PROTECTION FOR IMPROVED MEDICATION STABILITY.

Designed to deliver a continuous flow of safe and accurate infusions for a variety of treatments and therapies including:



Post-operative pain management



Palliative care



Chemotherapy



Thalassemia



Antibiotics



Diuretics

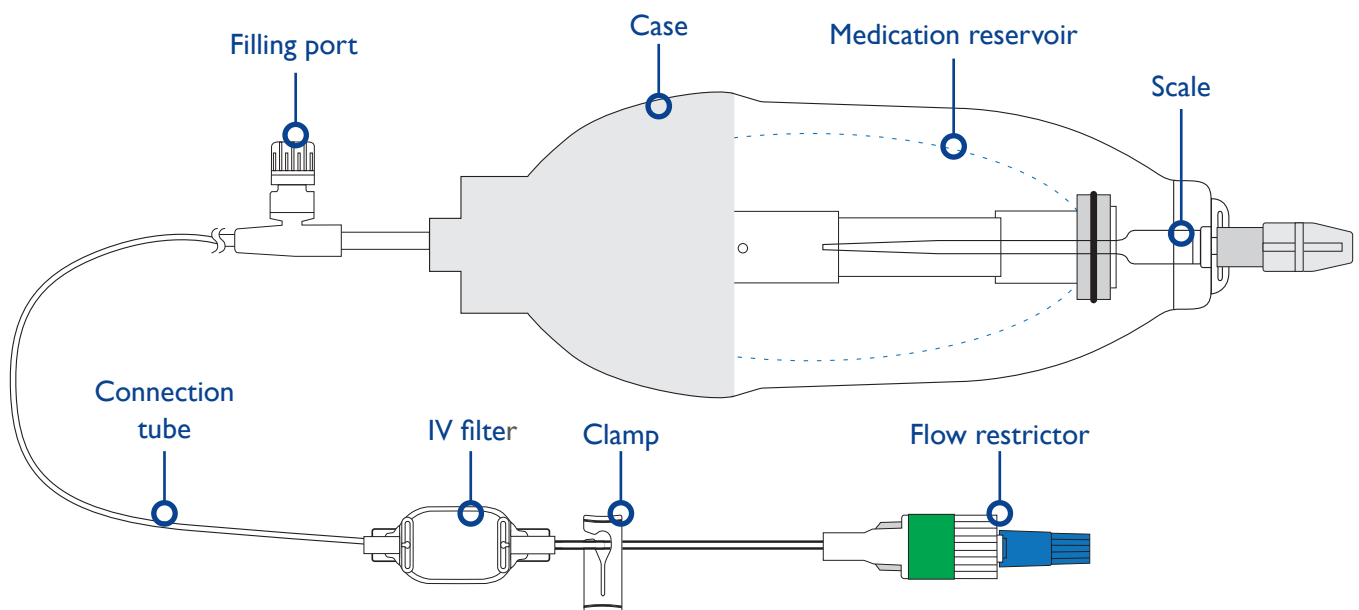


CAN BE USED IN BOTH HOSPITAL SETTINGS, OR LONGER-TERM OUTPATIENT TREATMENT

Design

CONTINUOUS SHAPE AND STRUCTURE

THE DESIGN OF ACCUFUSER® FOCUSES ON THE SAFE AND ACCURATE DELIVERY OF A CONTINUOUS FLOW OF INFUSIONS.



Key features

Accufuser's key features ensure the safe and accurate delivery of infusions.

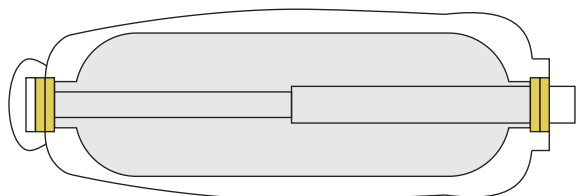
The **balloon** and **plunger** provide:

- Energy supply elasticity
- The maintenance of designated pressure
- Sustained perpendicular inflation of the balloon when it is filled with medication.

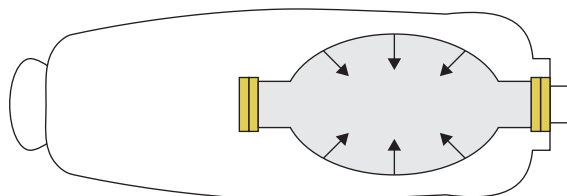
The **housing** of the pump protects the balloon from external stress and a **magnifier** (as detailed on page six) shows the remaining medication left to infuse.

Maintaining pressure is vital to ensure constant flow rate and Accufuser® achieves minimal pressure change even though volume and surface area decrease. The patented, fixed and moveable plunger system ensures the balloon contracts evenly.

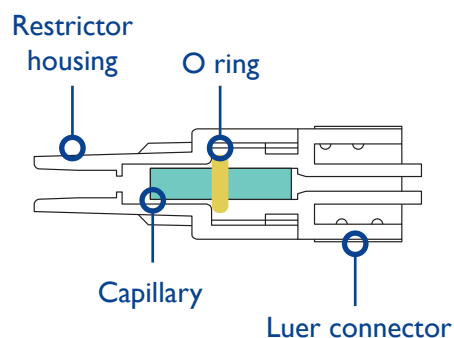
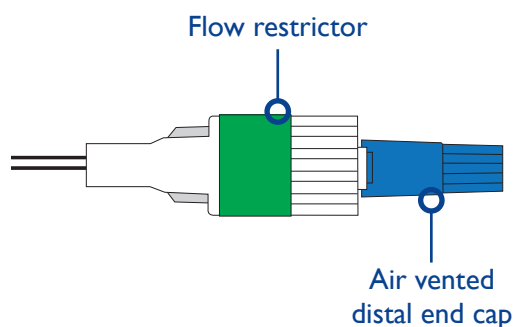
When 100ml filled



When 50ml filled



Combined with the balloon pressure, the flow restrictor controls the fixed flow rate. It works using Hagen-Poiseuille's law in which the fluid flow rate in the pipe is affected by its viscosity.



Air vented distal end cap

The blue end cap is a priming filter, or hydrophobic membrane, that fulfils three key functions:

- Air is released but the medication is contained
- Priming is easy – No clamping is necessary, nor does the end cap need to be removed
- Connection is easy. Just remove the filter and attach to the patient.

Complementary product...

Our Lifecath PICC & Midline range is designed for ambulatory patients who require short to mid-term therapy.

Email marketing@vygon.co.uk for further details.



Ease of use

USER BENEFITS AND CONVENIENCE

Colour coding

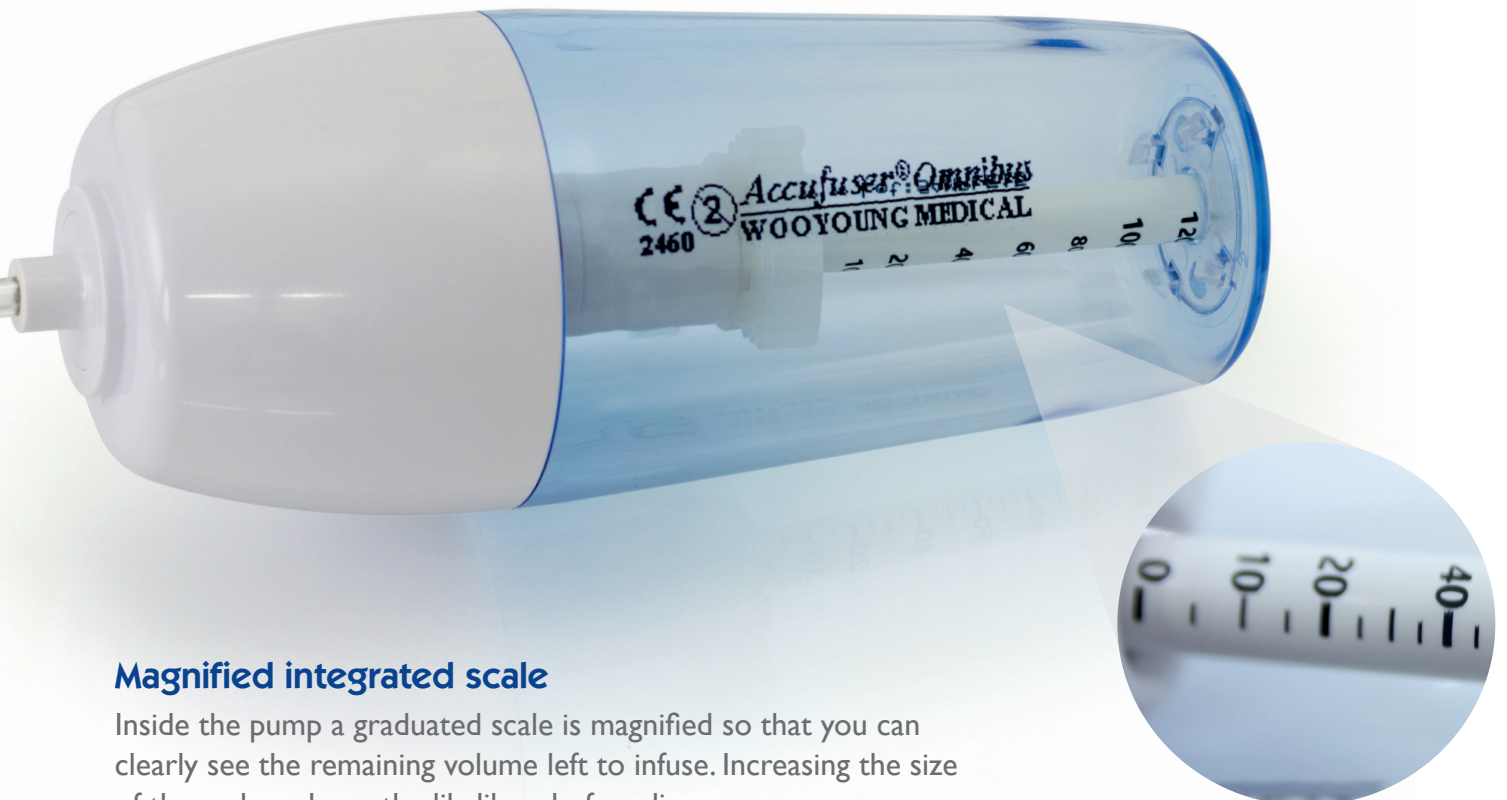
Accufuser® is easy to use thanks to the clear colour coding, which indicates flow rates in ml/hr.

Easy to use device for better ambulatory patient Care

One of the outstanding benefits of using elastomeric devices is the suitability for use in both hospital settings and for longer-term outpatient treatment.

With guidance from OPAT teams, use of an elastomeric device can be a crucial part of the acute to community patient pathway. This use of elastomeric devices in home settings offer a greater flexibility of care and can contribute to improved recovery time.

The devices are designed to be portable, comfortable, and discreet. Often supplied with handy carry bag options, patients can carry on with many daily activities whilst receiving intravenous therapy from the elastomeric device.



Magnified integrated scale

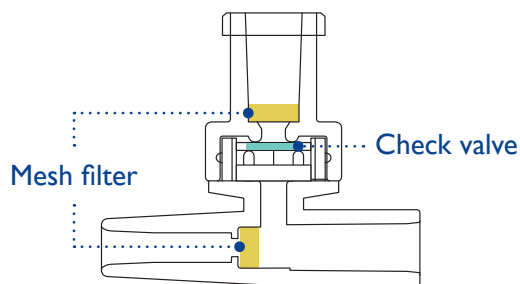
Inside the pump a graduated scale is magnified so that you can clearly see the remaining volume left to infuse. Increasing the size of the scale reduces the likelihood of reading errors.

Safe to use

FOCUSING ON SAFETY

Safe Filling Port

Many of Accufuser's® built-in features focus on safety. The filling port has a check valve to prevent backflow and integrated mesh filters capture particulates.



Maintaining flow rate and accuracy

The flow rate of Accufuser® is calibrated at the following conditions:

- Viscosity: Dextrose 5% water (D5W) at $32 \pm 2^\circ\text{C}$
Normal Saline 0.9% at $23^\circ\text{C} \pm 2^\circ\text{C}$

Accufuser® has been designed to perform at its nominal flow rate at $32 \pm 2^\circ\text{C}$ with D5W. It has been confirmed to produce an analogous flow rate with 0.9% normal saline at $23^\circ\text{C} \pm 2^\circ\text{C}$. The average actual flow rate of Accufuser® is accurate within $\pm 10\%$ of nominal flow rate.

Accuracy can be affected by the following:

- Mixing drugs with different pH values may cause particles to form. Particles in the medication can occlude the system.
- Viscosity of the infusate
- Ambient temperature
- Position of the pump

Relying on Accufuser's quality

Accufuser® has the following assurance system certificates for the design, manufacture and or, sterilisation and service of disposable and electrical infusion devices.

Accufuser's product certificate for infusion devices are endorsed by the European Union (EC) and the Food and Drugs Agency (FDA) in the USA.

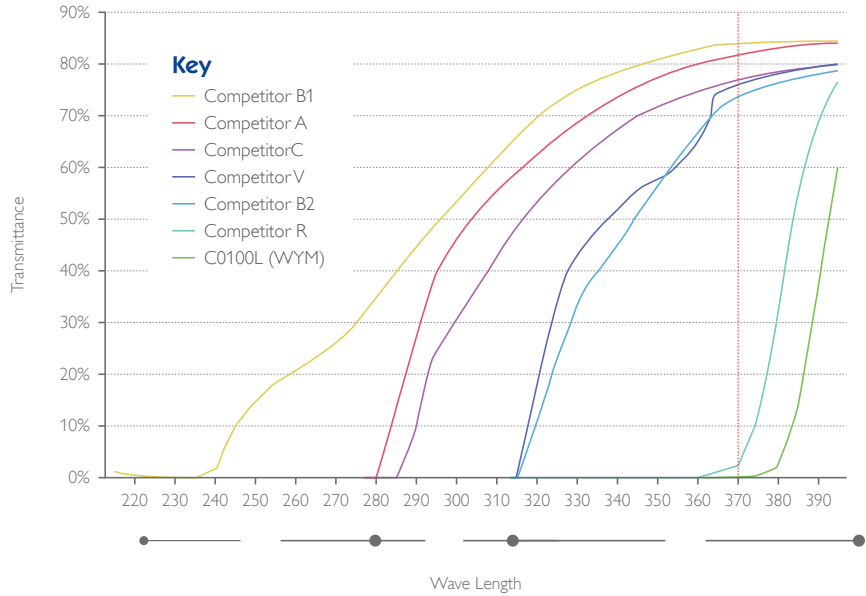


Safe to use

FOCUSING ON SAFETY

UV protection

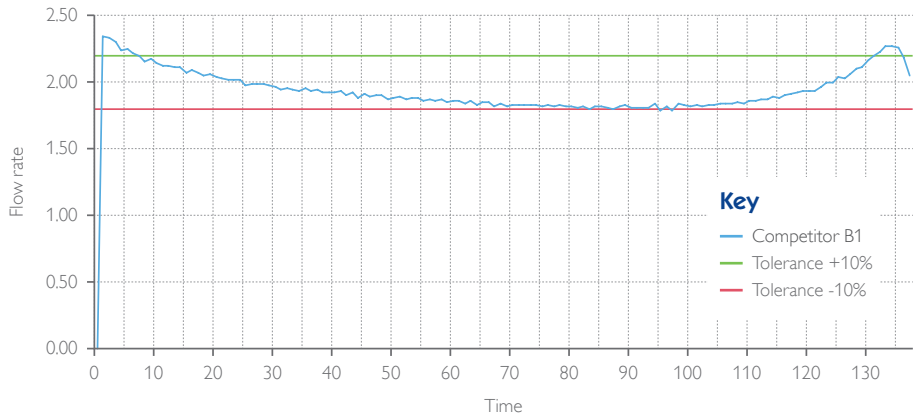
Protection from harmful UV rays is vital to prevent the medication degrading. Accufuser's® outer shell blocks UV-C, UV-B and UV-A radiation up to 370nm.



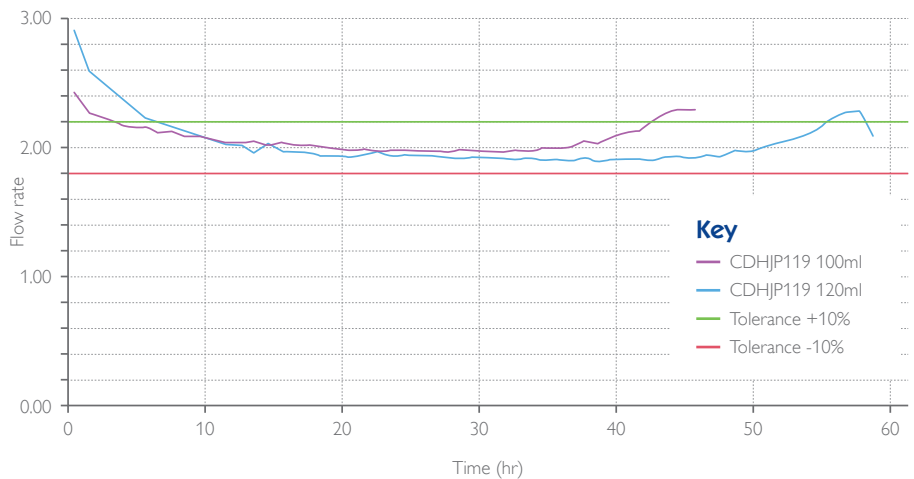
Stable flow rate

In tests, Accufuser® is shown to deliver a stable flow within recommended tolerance rates.

Title: Flow rate test
 Lot No.: CDLCQ57
 Test Volume: 275ml
 Test Temp: 32°C ± 2°C
 Product: C0020L
 Test Flow rate: 2.0 ml/hr
 Test Solution: D5W



Title: Flow rate test when 100ml pump filled with 120ml
 Lot No.: CDLCQ57
 Test Temp: 32°C
 Product: C0020M
 Test Solution: D5W



Value based procurement pilot

OXFORD UNIVERSITY HOSPITALS NHS FOUNDATION TRUST SUCCESSFULLY INTRODUCED VYCON'S ELASTOMERIC INFUSION PUMP

Working with OUH, Vygon UK proposed the use of the Accufuser® elastomeric pump to reduce bed stays and promote antimicrobial stewardship. The fresh fill model was filled with the specific antibiotic on site so that eligible patients could start their infusion and be discharged from hospital in the care of the Acute Hospital at Home (AHAH) nursing team.

The study ran for nearly two years and the results were positive for both the hospital and the patients.

“Clear benefits were demonstrated as medically stable patients were able to be discharged earlier to continue their IV antibiotic treatment at home, thereby reducing pressure on beds, improving the patient flow through the hospital and providing a good experience for patients.”

Alison Gowdy, Clinical Innovation Adoption Manager, Oxford AHSN ⁽¹⁾

Over the course of the study, 86 patients qualified for the device and were discharged to continue treatment at home. This released **1,143 bed days**, equating to **£360,410** cost savings (OUH net saving).



VIEW THE FULL STUDY HERE
scan with your smart device

BENEFITS OF ACCUFUSER® ELASTOMERIC INFUSION PUMP

1. Reduced workload for health care workers

Preparing and administering drugs can be a significant staff burden. The time spent reconstituting and administering drugs can amount to several hours of care per patient where other duties cannot be performed. This then increases the workload on other staff. Accufuser® reduces this burden by giving accurate infusions over a longer time period, thereby freeing up time to carry on with other duties.

2. Suitable for hospital and home use

Home therapy is preferable for the patient, but not all patients are able to be discharged to have their treatment at home. Accufuser® is not limited to these qualified patients but can also be used to treat patients within the hospital.

3. Discreet and comfortable therapy

Patients are able to carry on with many daily activities whilst receiving intravenous therapy from the elastomeric device.



OUR COMMITMENT TO THE ENVIRONMENT

Vygon UK has been working towards creating a sustainable future for many years and we are a Carbon Neutral Company. We believe that sustainability isn't just about meeting current needs, but more importantly, it is about ensuring we are here for the long term and are paving the way for a bright tomorrow. We strive to deliver enhanced Corporate Social Responsibility (CSR), ensuring we manage the social, economic, and environmental effects of Vygon UK's operations responsibly in line with public expectations.



DISCOVER OUR JOURNEY
scan with your smart device



REFERENCES

- 1 NHS Supply Chain. 2022. Value Based Procurement Pilot Reduces Length of Stay and Improves Patient Experience. [online] Available at: <<https://www.supplychain.nhs.uk/news-article/successful-value-based-procurement-pilot-creates-new-patient-pathway-at-oxford-university-hospitals-nhs-foundation-trust/>> [Accessed 7 April 2022].

TO VIEW THE FULL
PRODUCT RANGE &
OUR ORDERING CODES
scan with your smart device



ORDERING CODES

Our range of products

To meet patient needs and a wide range of clinical requirements, Accufuser® is available in four different sizes – 60ml, 100ml, 300ml and 600ml – and flow rates ranging from 0.5ml per hour up to 250ml per hour.

Code information

Using Accufuser model 'VAWC0005S' as an example:

C: Continuous type 0005: Flow rate of 0.5ml/hr S: Reservoir volume 60ml

Vygon code	Volume mls	Flow Rate mL/hr	Infusion time Therapy Hours – Device full*
VAWC0020S	60	2	30
VAWC0020S-DFO			
VAWC0050S		5	12
VAWC0050S-DFO			
VAWC0600S	100	60	1
VAWC0005M		0.5	200
VAWC0020M		2	50
VAWC0040M		4	25
VAWC0050M		5	20
VAWC0500M		50	2
VAWC1000M		100	1
VAWC2000M		200	0.5
VAWC0010L	300	1	300
VAWC0015L		1.5	200
VAWC0020L		2	150
VAWC0050L		5	60
VAWC0080L		8	37.5
VAWC0100L		10	30
VAWC1000L		100	3
VAWC2500L		250	1.2
VAWC0080XL	600	8	75
VAWC0100XL		10	60
VAWC0200XL		20	30
VAWC1000XL		100	6
Accessories			
VCL6350903	Pouch Bag for Elastomeric Pump		
VFR800ZBG	Pouch Bag for Elastomeric Pump - (Extra Long Strap)		
VFBNP-300A	Neoprene Bag for Elastomeric Pump		
VAWMP300	Elastomeric Mesh Bag		



03/2024 - DXJB0100014 V01343 v3

FOR FURTHER INFORMATION, PLEASE CONTACT: info@vygon.co.uk

The specifications shown in this leaflet are for information only and are not, under any circumstances, of a contractual nature. This brochure has been printed on responsibly sourced and sustainable material. To help us reduce our carbon footprint all of our literature is available electronically either from your Product Specialist, on our website or by emailing info@vygon.co.uk

VYGON (UK) LTD, THE PIERRE SIMONET BUILDING, V PARK,
GATEWAY NORTH, LATHAM ROAD, SWINDON, WILTSHIRE SN25 4DL
RECEPTION: +44 (0)1793 748800 WWW.VYGON.CO.UK

 [@vygonuk](https://www.instagram.com/vygonuk)

