

# CRITICAL CARE

MONITORING & CRITICAL ACCESS

Haemodynamic  
management in  
Paediatrics

PRODUCT GUIDE



## WHY CHOOSE VYGON?

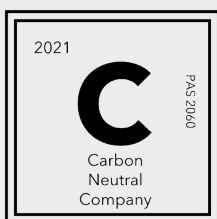


**OVER  
60  
YEARS  
EXPERIENCE**

## **PATIENT CARE** LIES AT THE HEART OF WHAT WE DO



**CLINICAL  
EXPERTISE**



WE  
ACHIEVED  
**CARBON  
NEUTRALITY**  
2021 & 2022

MORE THAN  
**100 MILLION**  
PRODUCTS IN  
**110 COUNTRIES**



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## 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.

## HAEMODYNAMIC MANAGEMENT

VYGON'S OFFERING IS BUILT ON THREE KEY PILLARS:

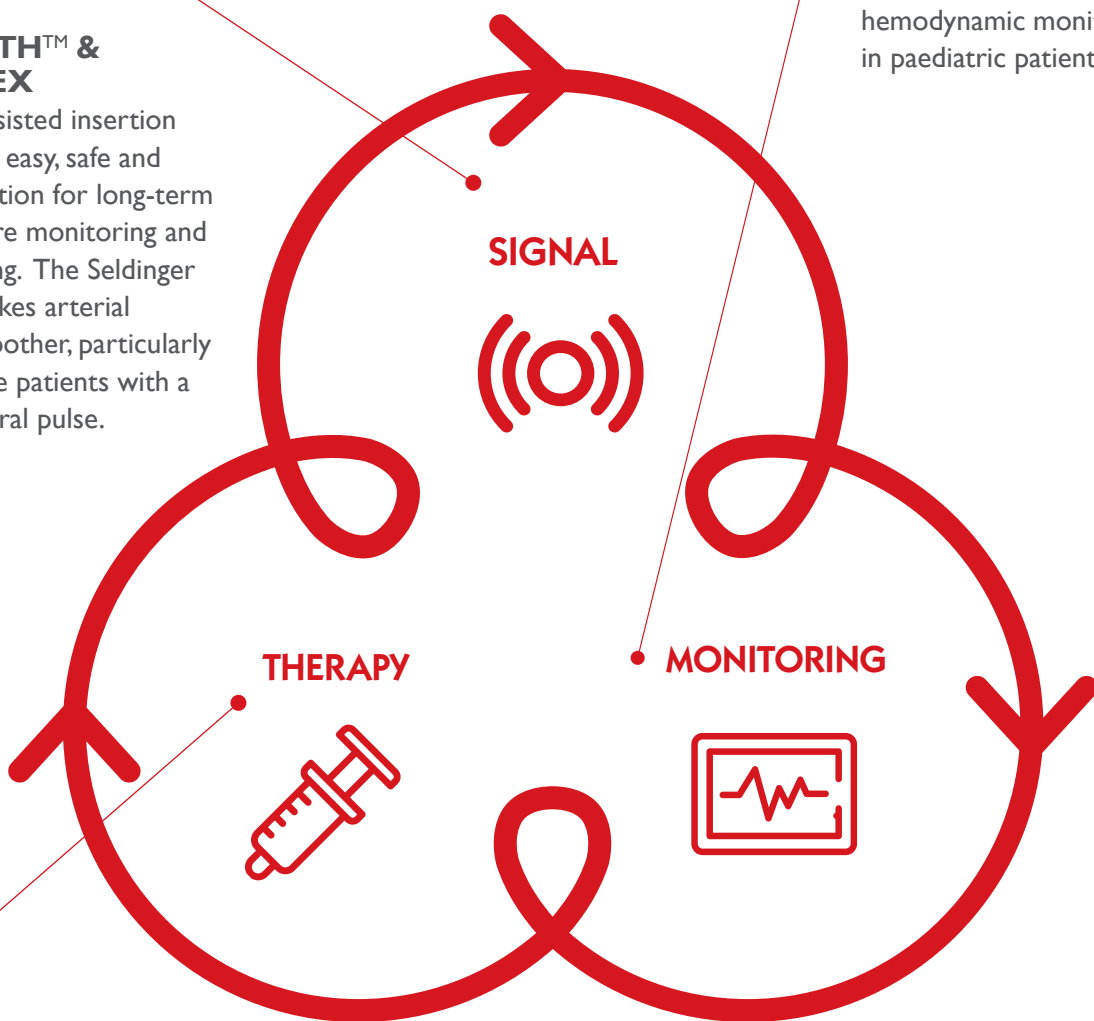
### **SIGNAL, MONITORING & THERAPY**

#### **LEADERCATH™ & LEADERFLEX**

Guidewire assisted insertion technique for easy, safe and quick cannulation for long-term blood pressure monitoring and blood sampling. The Seldinger technique makes arterial puncture smoother, particularly in hypotensive patients with a weak peripheral pulse.

#### **MOSTCARE UP**

Simple, affordable, and clinically validated solution for efficient hemodynamic monitoring in paediatric patients.



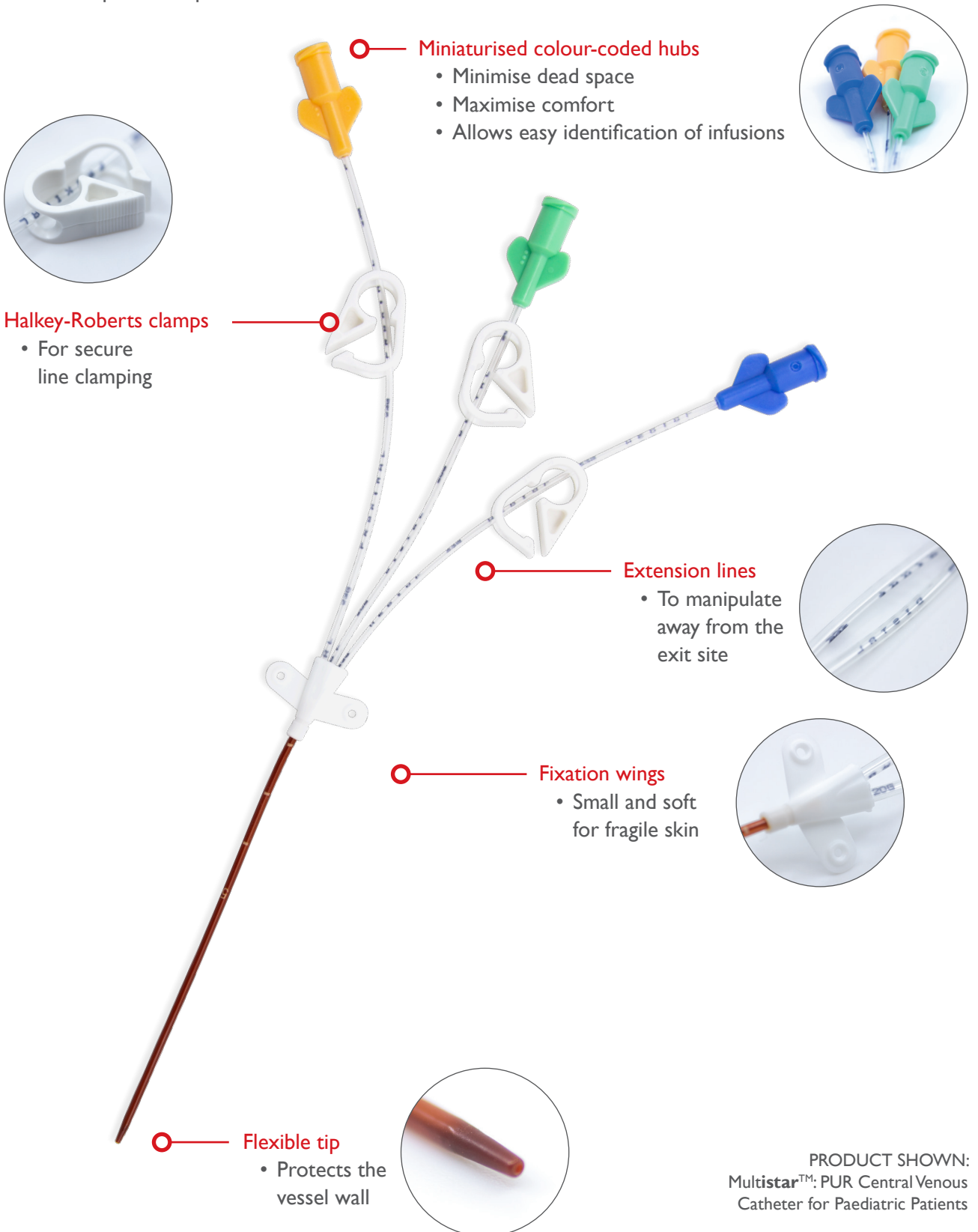
#### **MULTICATH™ & MULTISTAR™**

Central venous catheters specifically designed for the treatment of paediatric patients. All catheters are available in a choice of customised insertion packs.

MAKE YOUR CHOICES WITH CONFIDENCE, MAKE YOUR CHOICES WITH CARE...

# multicath™ and multistar™ SUPERIOR INSERTION BY DESIGN

Multicath™ and Multistar™ paediatric central venous catheters (CVC) have been specifically designed for the treatment of paediatric patients.



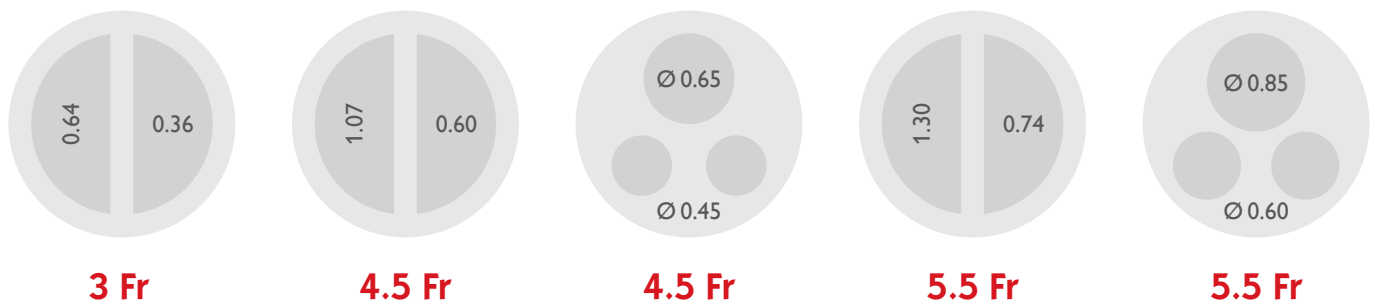
PRODUCT SHOWN:  
Multistar™: PUR Central Venous  
Catheter for Paediatric Patients

## Choose your catheter with confidence, choose your catheter with care:

- **Multicath™**: Modern Polyurethane catheters
- **Multistar™**: Next generation of paediatric central venous catheters incorporating the antimicrobials Rifampicin and Miconazole to reduce the incidence of both catheter microbial colonisation and related bloodstream infections, giving enhanced performance and safety.

## Choice of catheter lengths and sizes:

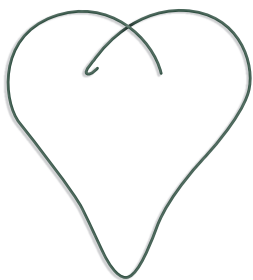
Offering clinicians choice when selecting a catheter to suit the size of the child depending on age, weight and therapy needs.



- **Insertion options**
  - A choice of a short IV cannula or introducer needle

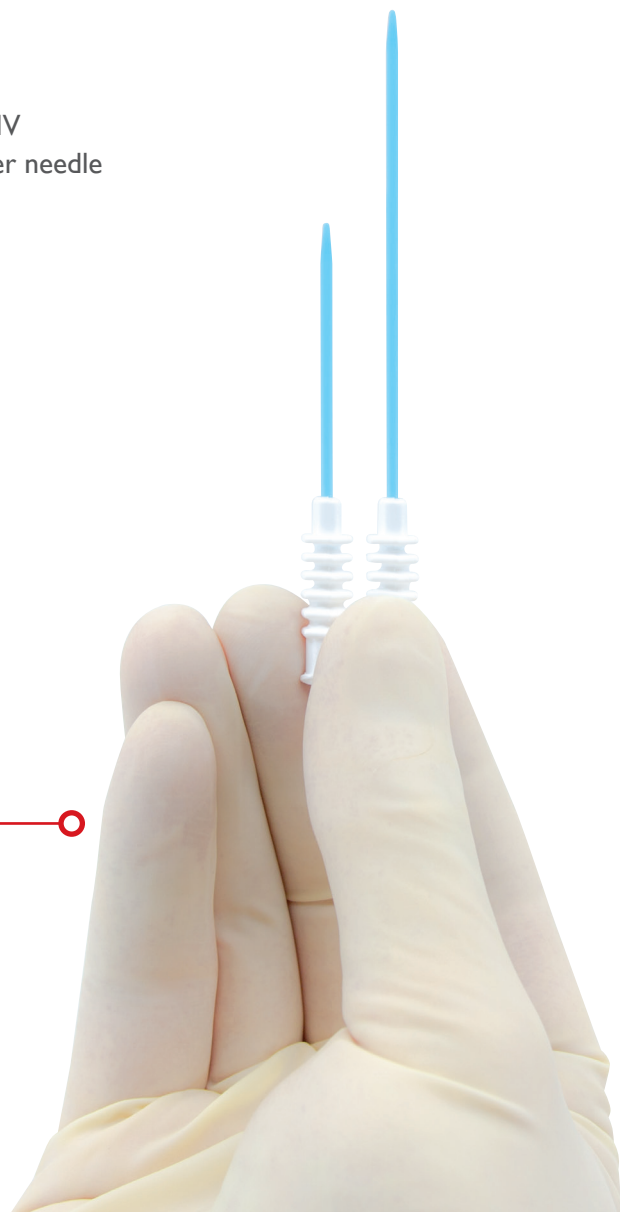


- **Low friction**
  - Highly echogenic introducer needle



- **Highly kink resistant**
  - Nitinol guidewire coated with Teflon for ultra-low resistance on insertion

- **Range of dilator options**
  - 3Fr dilator available in 3 & 5cm
  - 4.5Fr dilator available in 4 & 6cm
  - 5.5Fr dilator available in 4 & 6cm



multistar™

## MAXIMISE YOUR OPTIONS... MINIMISE YOUR RISK

“The cost of CVC associated bloodstream infections is substantial, both in terms of morbidity and in terms of financial resources expended. To improve patient outcome and reduce healthcare costs, strategies should be implemented to reduce the incidence of these infections.”<sup>1</sup>

- The active ingredients in Multistar are Rifampicin (a bactericidal antibiotic drug) and Miconazole (antifungal agent).
- The catheter, when in contact with blood, bodily fluids or infusion solutions, releases Rifampicin and Miconazole to the catheter’s inner and outer surfaces at a slow and steady rate.
- Suppression of microbial growth in the catheter’s biofilm reduces the incidence of catheter associated infections.
- Due to the large reservoir in the catheter’s wall, Rifampicin and Miconazole are released for the life of the product (30 days).
- Low risk of bacterial resistance development<sup>2</sup>



### WHAT DOES THE EVIDENCE TELL US?

“The combination of Rifampicin and Miconazole leads to protection against a broad spectrum of microorganisms such as Staphylococci, Enterobacterial and Candida”.<sup>3</sup>

Antibiotic-impregnated central venous catheters significantly reduced the risk of bloodstream infections compared with standard and heparin bonded central venous catheters. Widespread use of antibiotic-impregnated central venous catheters could help prevent bloodstream infections in paediatric intensive care units.



## Vygon CVC Procedure Packs

### DESIGNED BY YOU

Once you have selected your catheter, you can then support it with the best procedure pack. Our procedure packs are designed to ensure safe catheter placement.... every time.

### MAXIMAL BARRIER EQUALS MAXIMUM PROTECTION



**Under arm drape & table cover 75x90cm**



**Ultrasound probe cover with gel**



**Pre-filled syringes with saline (10mL Luer lock)**



**Disposafe - needle protector**



INTERNATIONAL GUIDELINES, CLEARLY DEMONSTRATE THAT USE OF A COMPREHENSIVE PROCEDURE PACK WITH MAXIMUM STERILE BARRIER PROTECTION SIGNIFICANTLY REDUCES THE RISK OF CATHETER RELATED BLOODSTREAM INFECTION.<sup>4-7</sup>

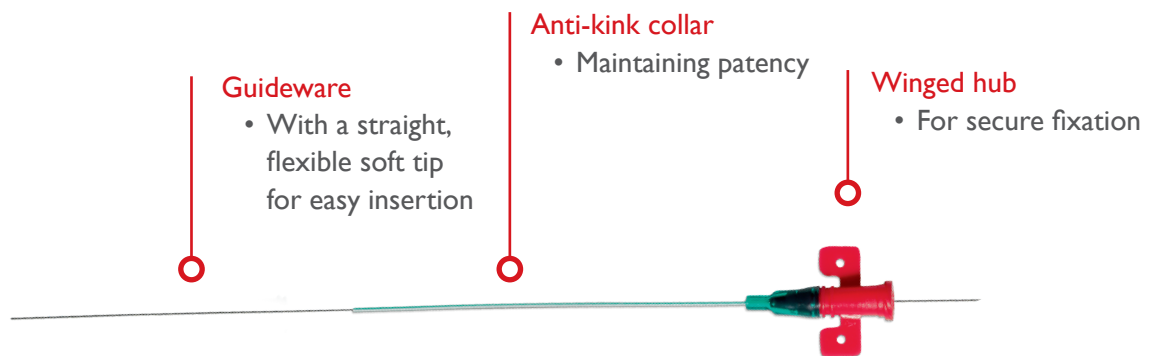


## leadercath™ Arterial

### SAFE, SIMPLE, SUCCESSFUL ARTERIAL ACCESS

Insertion of arterial lines into small vessels can be technically challenging, particularly if the patient is hypotensive or peripherally vasoconstricted.

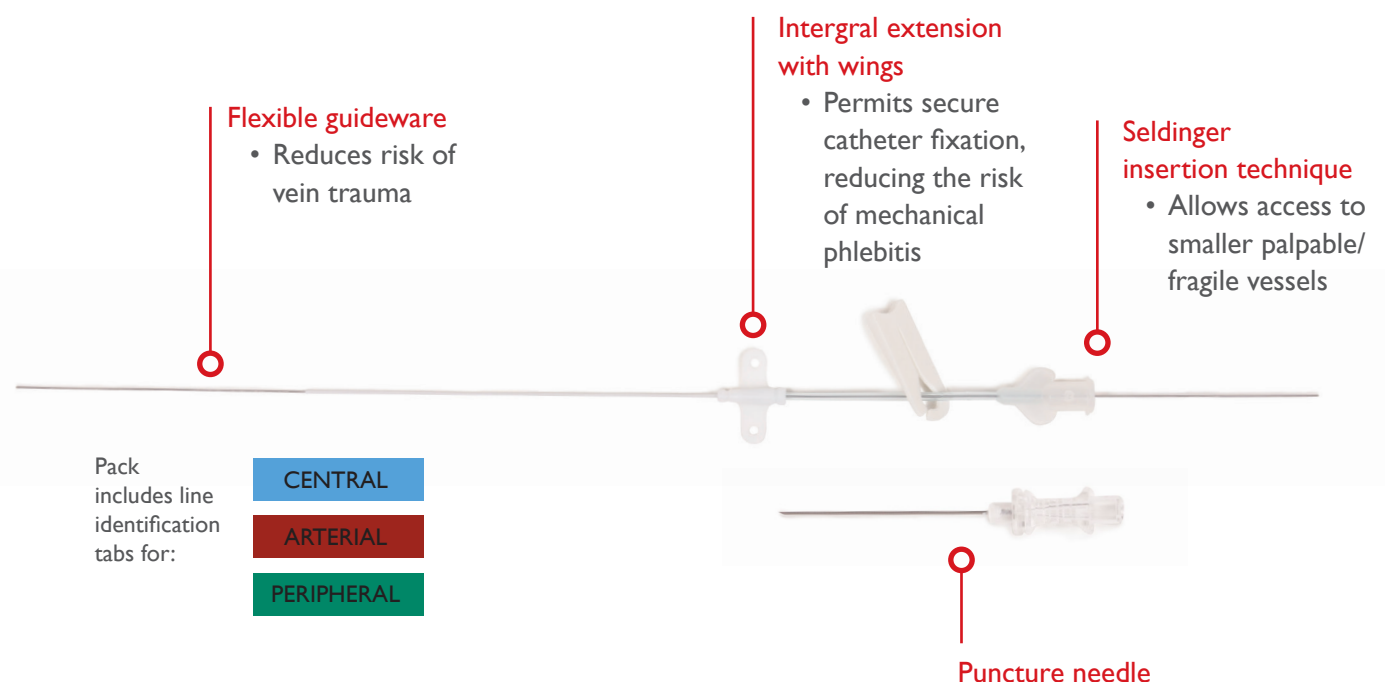
Leadercath Arterial offers the 'classic' Seldinger method. This technique has demonstrated a significantly higher rate of success than the direct threading method.<sup>8</sup>



## leaderflex

### UNIVERSAL CATHETER FOR ARTERIAL CATHETERISATION

Radiopaque polyurethane catheter with fixation wings and an integral extension tube. A family of 22G catheters suitable for arterial catheterisation in children.





most-care  Up

## Better, faster decisions...

The Mostcare Up advanced haemodynamic monitor calculates cardiac output and other variables in critically ill children or those undergoing major surgical procedures.

FOR MORE INFORMATION  
SCAN THE QR CODE



# OUR COMMITMENT TO THE ENVIRONMENT

2021 was a landmark year as Vygon UK achieved carbon neutrality in accordance with the guidance set out in PAS 2060, with certification renewed in 2022 as year-on year emission reductions were achieved and the residual emissions were offset with the purchase of high-quality Verified Carbon Standard (VCS) emission reduction projects. Vygon are in the process of expanding its emissions reporting to include Scope 3 emissions, this will involve a baseline year reset and result in reporting higher emissions than in previous years and therefore, unable to purchase carbon credits. Following the baseline year and emission targets reset, our focus will be to regain Carbon Neutral status.

We are delighted to announce that Vygon UK has successfully undergone the NHS Evergreen Sustainable Supplier Assessment, attaining level 2 status. This is key to supporting us to understand how we align to the NHS's long term sustainability priorities and the pathway to progress.

These accomplishments underscore our unwavering dedication to sustainable practices and reinforces our role as a responsible contributor to the healthcare system.



DISCOVER OUR JOURNEY  
scan with your smart device



## REFERENCES

- 1 Guidelines for the prevention of intravasation catheter related infections. MMWR August 9 2002, Vol 51/RR-10.
- 2 Schierholz J, Nagelschmidt K, Nagelschmidt M, Lefering R, Yücel N, Beuth J, Antimicrobial central venous catheters in oncology: efficacy of a rifampicin-miconazole-releasing catheter, Anticancer Research 30: 1353-1358, 2010
- 3 Schierholz J, Summary of the issues associated with catheter related blood stream infections with special consideration given to catheters incorporating Rifampicin and Miconazole, 2011.
- 4 Ruth E Gilbert, Quen Mok, Kerry Dwan, Katie Harron, Tracy Moitt, Mike Millar et al. Impregnated central venous catheters for prevention of bloodstream infection in children (the CATCH trial): a randomised controlled trial. www.thelancet.com 2016; 1-11.
- 5 2011 Guidelines for the Prevention of Intravascular Catheter-Related Infections (Center for Disease Control).
- 6 Matching Michigan.
- 7 Pratt R. J., et al. (2007) epic2: National evidence-based guidelines for preventing healthcare-associated infections in NHS hospital in England. Journal of Hospital Infection. 65S, S1-64.
- 8 Reference - S. C. Beards, et al. A comparison of arterial lines and insertion techniques in critically ill patients.

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



## ORDERING CODES

### Paediatric multicath

	Vygon code	Catheter			Priming vol (mL)			Flow rate (mL/min*)			Guidewire		Introducer needle		Introducer Cannula		Box qty
		Fr	Length	Ømm	Dist	Med	Prox	Dist	Med	Prox	L (mm)	Ømm	L (mm)	G	G		
2 Lumens	000157064	3	6	1.05	0.09	-	0.09	4.4	-	4.4	500	0.3	40	21	24	10	
	000157084	3	8	1.05	0.08	-	0.08	4.2	-	4.2	500	0.3	40	21	24		
	000157114	3	10	1.05	0.07	-	0.09	3.1	-	3.1	500	0.3	40	21	24		
	000157124	3	12.5	1.05	0.10	-	0.10	3	-	3	500	0.3	40	21	24		
	000157154	3	15	1.05	0.11	-	0.11	2.3	-	2.3	500	0.3	40	21	24		
	000157204	3	20	1.05	0.15	-	0.13	1.8	-	1.8	500	0.3	40	21	24		
	001202062	4.5	6	1.5	0.20	-	0.20	22	-	24	400	0.46	40	21	22		
	001203082	4.5	8	1.5	0.22	-	0.22	19	-	22	400	0.46	40	21	22		
	001203122	4.5	12.5	1.5	0.25	-	0.25	15	-	18	400	0.46	40	21	22		
	001203202	4.5	20	1.5	0.34	-	0.34	12	-	15	700	0.46	40	21	22		
	001203302	4.5	30	1.5	0.37	-	0.37	9	-	11	700	0.46	40	21	22		
	000157508	5.5	8	1.8	0.34	-	0.38	46	-	77	400	0.46	40	21	22		
	000157512	5.5	12.5	1.8	0.36	-	0.38	43	-	64	400	0.46	40	21	22		
	000157515	5.5	15	1.8	0.38	-	0.42	39	-	57	400	0.46	40	21	22		
	000157520	5.5	20	1.8	0.43	-	0.45	26	-	46	700	0.46	40	21	22		
000157530	5.5	30	1.8	0.46	-	0.53	21	-	35	700	0.46	40	21	22			
3 Lumens	001233062	4.5	6	1.5	0.12	0.11	0.11	14.8	7.1	8.1	400	0.46	40	21	22	10	
	001233082	4.5	8	1.5	0.14	0.12	0.12	14.4	6.7	7.5	400	0.46	40	21	22		
	001233102	4.5	10	1.5	0.16	0.14	0.14	13.5	5.8	6.1	400	0.46	40	21	22		
	001231122	4.5	12.5	1.5	0.18	0.16	0.16	10	3	4	400	0.46	40	21	22		
	001233202	4.5	20	1.5	0.20	0.17	0.17	7.4	2	2.1	700	0.46	40	21	22		
	001233302	4.5	30	1.5	0.24	0.19	0.19	5.8	1.5	1.6	700	0.46	40	21	22		
	000155508	5.5	8	1.8	0.22	0.21	0.24	27	16	17	400	0.46	40	21	22		
	000155512	5.5	12.5	1.8	0.24	0.23	0.23	24	12	13	400	0.46	40	21	22		
	000155515	5.5	15	1.8	0.37	0.30	0.36	23	11	11	400	0.46	40	21	22		
	000155520	5.5	20	1.8	0.28	0.26	0.27	20	8.4	8.8	700	0.46	40	21	22		
	000155530	5.5	30	1.8	0.39	0.28	0.29	17	5.5	5.8	700	0.46	40	21	22		

### Paediatric multistar

2 Lumens	006202063	4.5	6	1.5	0.2	-	0.2	22	-	24	400	0.46	40	21	22	10
	006203083	4.5	8	1.5	0.22	-	0.22	19	-	22	400	0.46	40	21	22	
	006203123	4.5	12.5	1.5	0.25	-	0.25	15	-	18	400	0.46	40	21	22	
3 Lumens	006233063	4.5	6	1.5	0.12	0.11	0.11	14.8	7.1	8.1	400	0.46	40	21	22	
	006231083	4.5	8	1.5	0.14	0.12	0.12	14.4	6.7	7.5	400	0.46	40	21	22	
	006231123	4.5	12.5	1.5	0.18	0.16	0.16	10	3	4	400	0.46	40	21	22	

### leadercath™ Arterial

Vygon code	NHSSC	Description	Length (cm)	Size (G)	Box qty
000115096	FSQ3877	leadercath™ Arterial	6	20	20
000115090	FSQ049	leadercath™ Arterial	8	20	20

### leaderflex

Vygon code	NHSSC	Description	Length (cm)	Size (G)	Box qty
00121204	FSQ326	leaderflex	4	22	20
00121206	FSQ327	leaderflex	6	22	20



07/2024 - DXJB0009006 V01415 v2

FOR FURTHER INFORMATION, PLEASE CONTACT: [info@vygon.co.uk](mailto:info@vygon.co.uk)

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