

CRITICAL CARE

MONITORING & CRITICAL ACCESS

Haemodynamic management in Paediatrics

PRODUCT GUIDE



WHY CHOOSE VYGON?

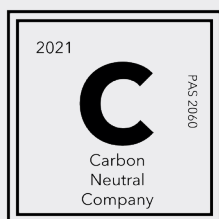


**OVER
60
YEARS
EXPERIENCE**

PATIENT CARE LIES AT THE HEART OF WHAT WE DO



**CLINICAL
EXPERTISE**



WE ARE A
**CARBON
NEUTRAL
COMPANY**

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:

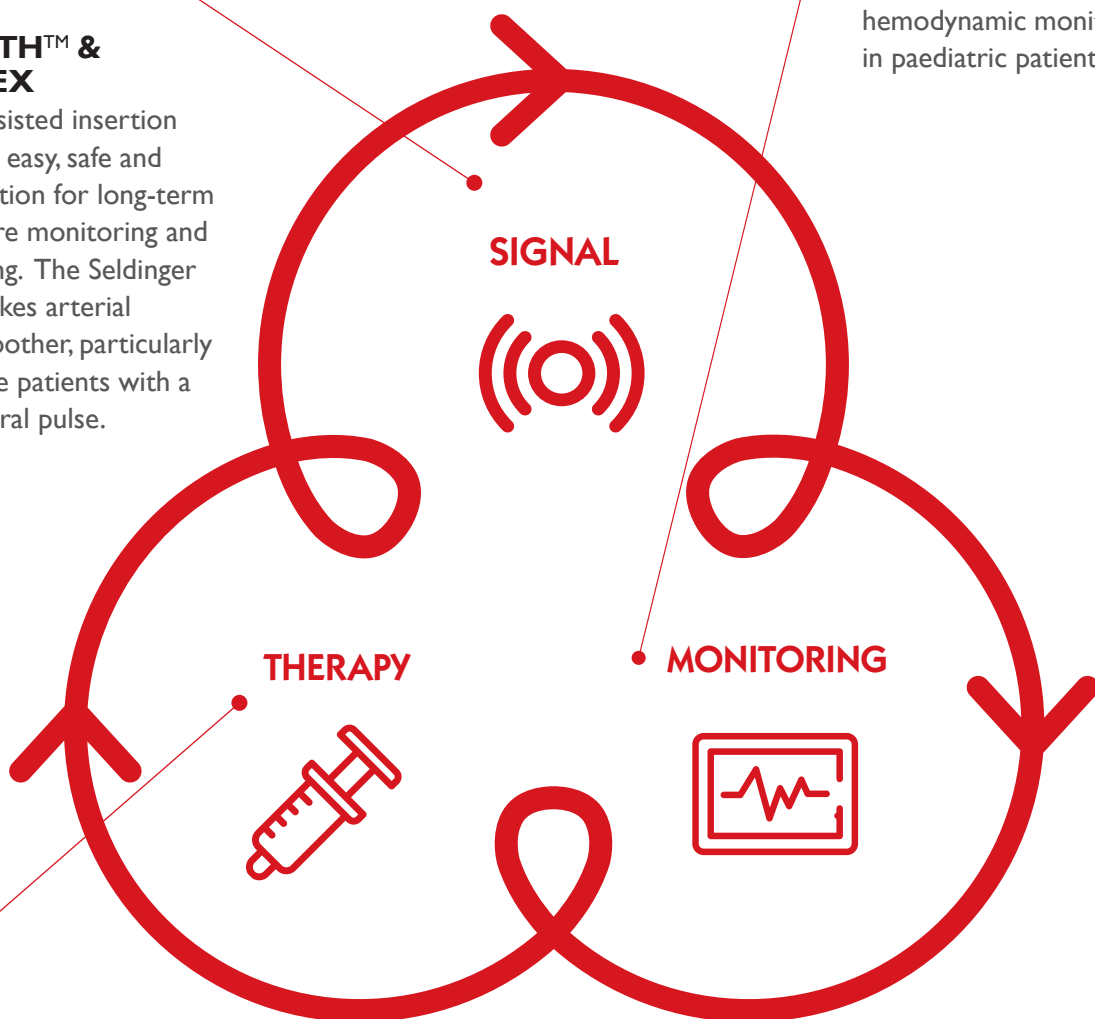
SIGNAL, MONITORING & THERAPY

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.



Halkey-Roberts clamps

- For secure line clamping

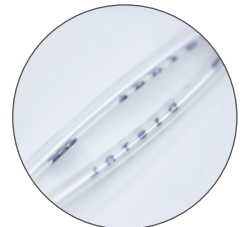
Miniaturised colour-coded hubs

- Minimise dead space
- Maximise comfort
- Allows easy identification of infusions



Extension lines

- To manipulate away from the exit site



Fixation wings

- Small and soft for fragile skin



Flexible tip

- Protects the vessel wall



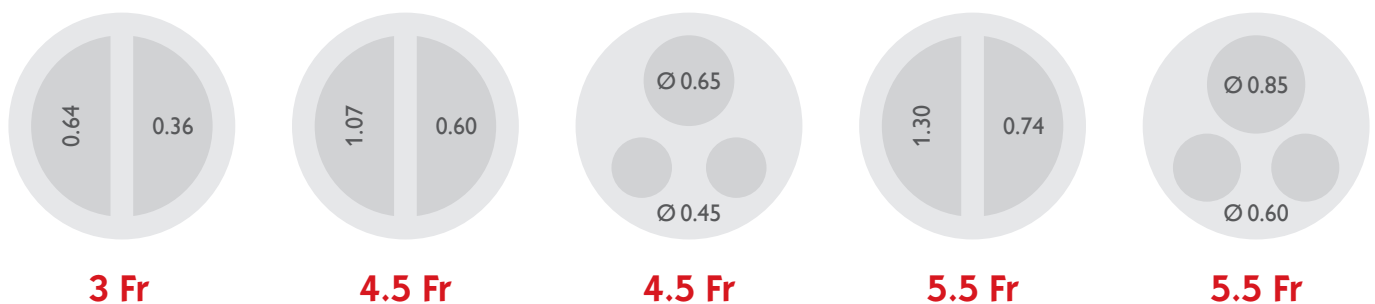
PRODUCT SHOWN:
Multistar™; PUR Central Venous
Catheter for Paediatric Patients

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.



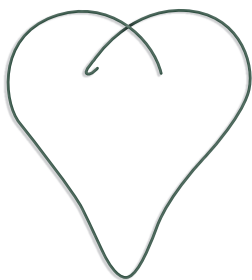
Insertion options

- A choice of a short IV cannula or introducer needle



Low friction

- Highly echogenic introducer needle

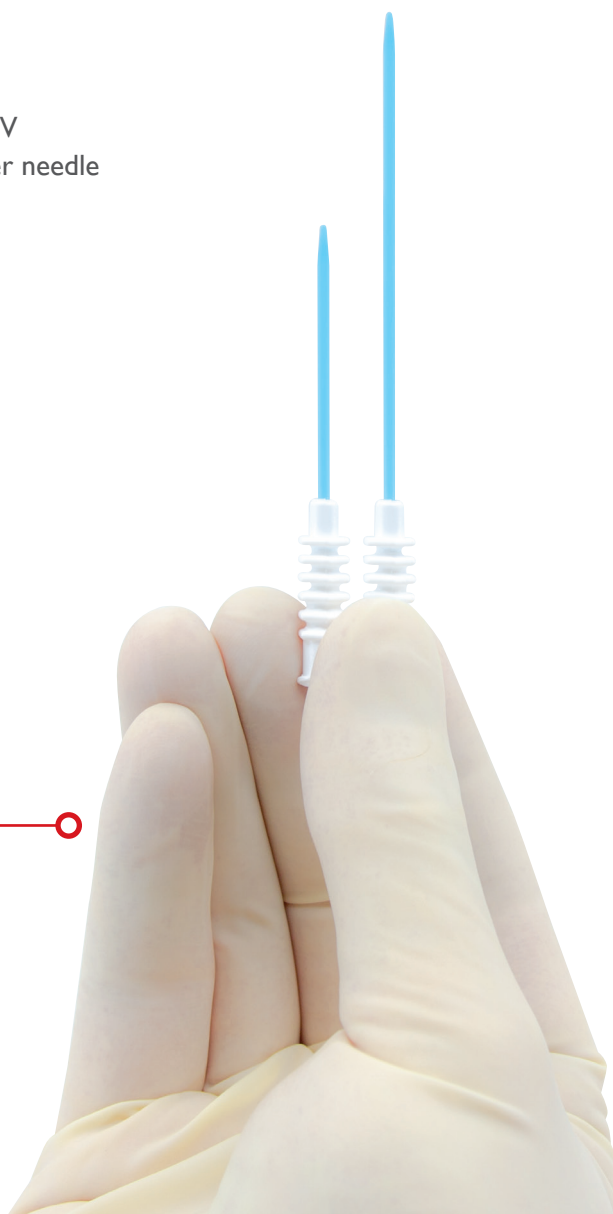


Highly kink resistant

- 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.” ¹

- 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 ²



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”. ³

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 Vyset 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.⁴⁻⁷

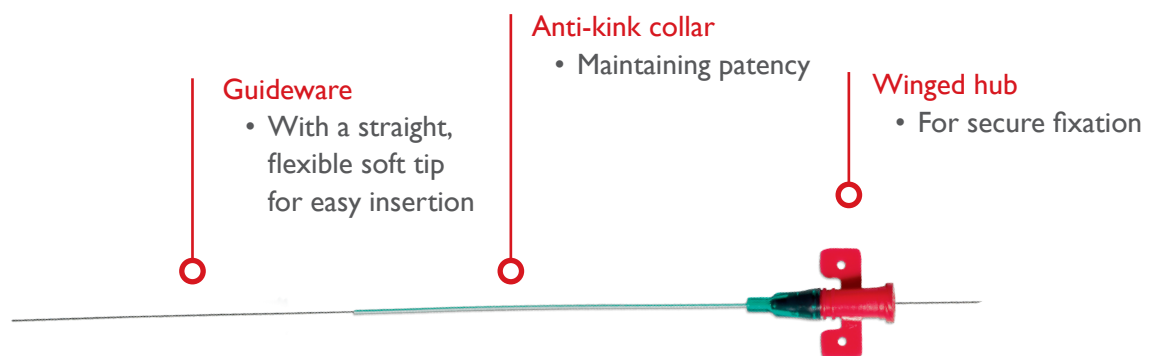


leadercath™ Arterial

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.

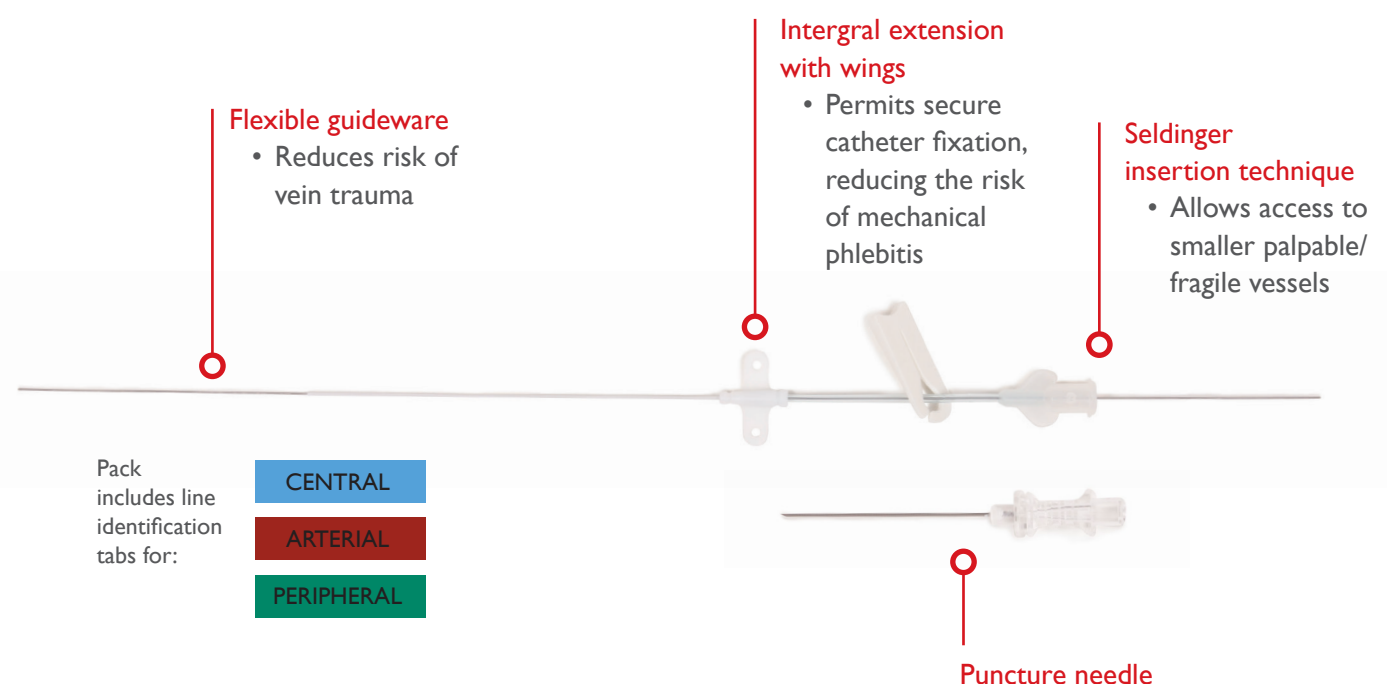
Leadercath Arterial offers the 'classic' Seldinger method. This technique has demonstrated a significantly higher rate of success than the direct threading method.⁸



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.





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

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 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 | 157.064 | 3 | 6 | 1.05 | 0.09 | - | 0.09 | 4.4 | - | 4.4 | 500 | 0.3 | 40 | 21 | 24 | 10 |
| | 157.084 | 3 | 8 | 1.05 | 0.08 | - | 0.08 | 4.2 | - | 4.2 | 500 | 0.3 | 40 | 21 | 24 | |
| | 157.114 | 3 | 10 | 1.05 | 0.07 | - | 0.09 | 3.1 | - | 3.1 | 500 | 0.3 | 40 | 21 | 24 | |
| | 157.124 | 3 | 12.5 | 1.05 | 0.10 | - | 0.10 | 3 | - | 3 | 500 | 0.3 | 40 | 21 | 24 | |
| | 157.154 | 3 | 15 | 1.05 | 0.11 | - | 0.11 | 2.3 | - | 2.3 | 500 | 0.3 | 40 | 21 | 24 | |
| | 157.204 | 3 | 20 | 1.05 | 0.15 | - | 0.13 | 1.8 | - | 1.8 | 500 | 0.3 | 40 | 21 | 24 | |
| | 1202.062 | 4.5 | 6 | 1.5 | 0.20 | - | 0.20 | 22 | - | 24 | 400 | 0.46 | 40 | 21 | 22 | |
| | 1203.082 | 4.5 | 8 | 1.5 | 0.22 | - | 0.22 | 19 | - | 22 | 400 | 0.46 | 40 | 21 | 22 | |
| | 1203.122 | 4.5 | 12.5 | 1.5 | 0.25 | - | 0.25 | 15 | - | 18 | 400 | 0.46 | 40 | 21 | 22 | |
| | 1203.202 | 4.5 | 20 | 1.5 | 0.34 | - | 0.34 | 12 | - | 15 | 700 | 0.46 | 40 | 21 | 22 | |
| | 1203.302 | 4.5 | 30 | 1.5 | 0.37 | - | 0.37 | 9 | - | 11 | 700 | 0.46 | 40 | 21 | 22 | |
| | 157.508 | 5.5 | 8 | 1.8 | 0.34 | - | 0.38 | 46 | - | 77 | 400 | 0.46 | 40 | 21 | 22 | |
| | 157.512 | 5.5 | 12.5 | 1.8 | 0.36 | - | 0.38 | 43 | - | 64 | 400 | 0.46 | 40 | 21 | 22 | |
| | 157.515 | 5.5 | 15 | 1.8 | 0.38 | - | 0.42 | 39 | - | 57 | 400 | 0.46 | 40 | 21 | 22 | |
| | 157.520 | 5.5 | 20 | 1.8 | 0.43 | - | 0.45 | 26 | - | 46 | 700 | 0.46 | 40 | 21 | 22 | |
| | 157.530 | 5.5 | 30 | 1.8 | 0.46 | - | 0.53 | 21 | - | 35 | 700 | 0.46 | 40 | 21 | 22 | |
| 3 Lumens | 1233.062 | 4.5 | 6 | 1.5 | 0.12 | 0.11 | 0.11 | 14.8 | 7.1 | 8.1 | 400 | 0.46 | 40 | 21 | 22 | 10 |
| | 1233.082 | 4.5 | 8 | 1.5 | 0.14 | 0.12 | 0.12 | 14.4 | 6.7 | 7.5 | 400 | 0.46 | 40 | 21 | 22 | |
| | 1233.102 | 4.5 | 10 | 1.5 | 0.16 | 0.14 | 0.14 | 13.5 | 5.8 | 6.1 | 400 | 0.46 | 40 | 21 | 22 | |
| | 1231.122 | 4.5 | 12.5 | 1.5 | 0.18 | 0.16 | 0.16 | 10 | 3 | 4 | 400 | 0.46 | 40 | 21 | 22 | |
| | 1233.202 | 4.5 | 20 | 1.5 | 0.20 | 0.17 | 0.17 | 7.4 | 2 | 2.1 | 700 | 0.46 | 40 | 21 | 22 | |
| | 1233.302 | 4.5 | 30 | 1.5 | 0.24 | 0.19 | 0.19 | 5.8 | 1.5 | 1.6 | 700 | 0.46 | 40 | 21 | 22 | |
| | 155.508 | 5.5 | 8 | 1.8 | 0.22 | 0.21 | 0.24 | 27 | 16 | 17 | 400 | 0.46 | 40 | 21 | 22 | |
| | 155.512 | 5.5 | 12.5 | 1.8 | 0.24 | 0.23 | 0.23 | 24 | 12 | 13 | 400 | 0.46 | 40 | 21 | 22 | |
| | 155.515 | 5.5 | 15 | 1.8 | 0.37 | 0.30 | 0.36 | 23 | 11 | 11 | 400 | 0.46 | 40 | 21 | 22 | |
| | 155.520 | 5.5 | 20 | 1.8 | 0.28 | 0.26 | 0.27 | 20 | 8.4 | 8.8 | 700 | 0.46 | 40 | 21 | 22 | |
| | 155.530 | 5.5 | 30 | 1.8 | 0.39 | 0.28 | 0.29 | 17 | 5.5 | 5.8t | 700 | 0.46 | 40 | 21 | 22 | |

Paediatric multistar

| | | | | | | | | | | | | | | | | |
|-----|----------|-----|------|-----|------|------|------|------|-----|-----|-----|------|----|----|----|----|
| 2 L | 6202.063 | 4.5 | 6 | 1.5 | 0.2 | - | 0.2 | 22 | - | 24 | 400 | 0.46 | 40 | 21 | 22 | 10 |
| | 6203.083 | 4.5 | 8 | 1.5 | 0.22 | - | 0.22 | 19 | - | 22 | 400 | 0.46 | 40 | 21 | 22 | |
| | 6203.123 | 4.5 | 12.5 | 1.5 | 0.25 | - | 0.25 | 15 | - | 18 | 400 | 0.46 | 40 | 21 | 22 | |
| 3 L | 6233.063 | 4.5 | 6 | 1.5 | 0.12 | 0.11 | 0.11 | 14.8 | 7.1 | 8.1 | 400 | 0.46 | 40 | 21 | 22 | |
| | 6231.083 | 4.5 | 8 | 1.5 | 0.14 | 0.12 | 0.12 | 14.4 | 6.7 | 7.5 | 400 | 0.46 | 40 | 21 | 22 | |
| | 6231.123 | 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 |
|------------|---------|----------------------|-------------|----------|---------|
| 115096 | FSQ3877 | leadercath™ Arterial | 6 | 20 | 20 |
| 0115.09 | FSQ049 | leadercath™ Arterial | 8 | 20 | 20 |

leaderflex

| Vygon code | NHSSC | Description | Length (cm) | Size (G) | Box qty |
|------------|--------|-------------|-------------|----------|---------|
| 1212.04 | FSQ326 | leaderflex | 4 | 22 | 20 |
| 1212.06 | FSQ327 | leaderflex | 6 | 22 | 20 |



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

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