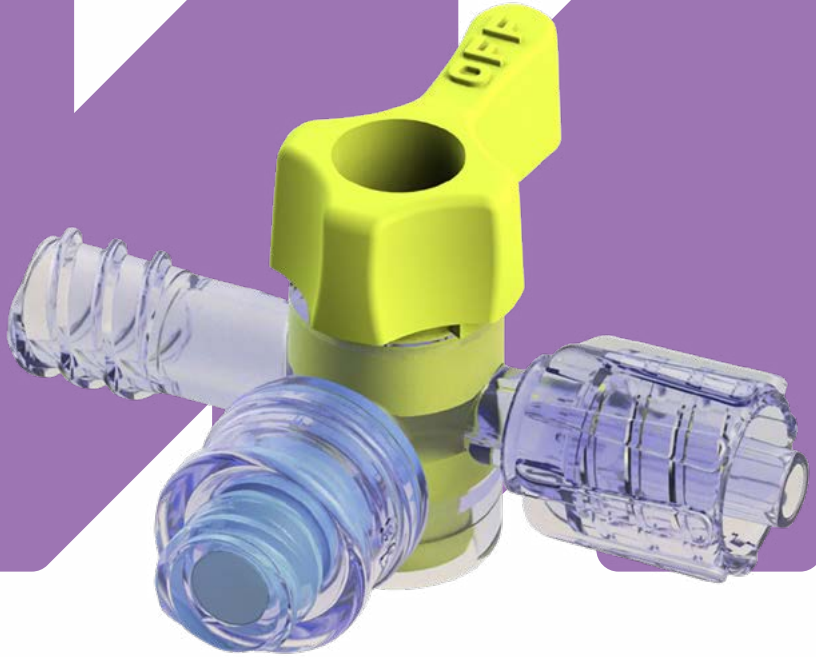


High Flow Marvelous™ Stopcock (MRVLS)



A closed-swabbable stopcock with a proprietary flow channel feature specifically designed for IV administration, assuring minimal residual volume. The Marvelous™ allows continual flushing of drugs and blood residuals, without the need to expose the system to open air with minimal manual steps, and maximal compliance to best practices.

The new High Flow (HF) version is designed to provide higher flow rates in the All-open position for high flow applications such as volume resuscitation. It also features a new handle and cap designs for better grip and an improved valve thread design for secure syringe or luer lock connection.

Elcam's Marvelous™ is part of our E-Safe™ product family, specially developed in order to provide our customers with a range of solutions to minimize stopcock contaminations and enhance patient safety.

Elcam Medical's HF Marvelous™ stopcock –
an excellent choice for IV procedures.

The High Flow Marvelous™ continues to offer all the advantages found in the standard flow Marvelous™ with the added new HF feature:

Safety

- **Reduced bacterial and air ingress** – maintains a closed system at all times
- **Reduced dead space** – assures flushing with minimal residual volume. Whether a drug or blood, the internal volume is constantly flushed by the in-line flow providing greater protection against blood clotting and bacterial colonization.

Efficient pressure monitoring

- **Allows priming in a closed system**
- **Assures pressure monitoring without signal damping**

Facilitated blood sampling

- Enables blood sampling with the benefits of a **closed system** and in-line flushing with **minimal residual volume**

New – Higher infusion flow rates

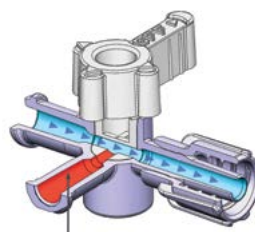
- Enables high flow IV infusion and blood transfusion rates for appropriate applications

Ease of use

- **Saving your customer time and money** – simply swab and use! No need for using cannulas, needles or caps.
- **Shortens flushing time** – facilitated by constant in-line flushing
- **Universal** – the Marvelous' ports are compatible with all common used luers
- **New – Enhances convenience** – comfortable handle grip and easier syringe/ luer connectivity

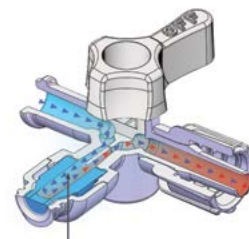
Property	High Flow Marvelous (5.5mm Tube ID)	Standard Marvelous (5.5mm Tube ID)
Flow rate in all open position (Flushing Mode)	500ml/min	130 ml/min
Flow rate in closed side position (Monitoring Mode)	228ml/min	60 ml/min
Flow rate from side port to male Luer (Sampling/Administration Mode)	386 ml/min	233 ml/min

Standard Stopcock



Trapped fluid or air in side port

HF Marvelous



Constant flushing of the side port

Physical Properties

- Lipid Resistant
- Not made with latex
- Non-hemolytic

Configuration options

- High Flow pathways
- 1 Valve or 2 valves
- With or without Luer Lock



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