

FOR EXHIBITION

Neofuser

Overseas sales dept. Jo Sungje

■ Elastomeric Infusion Pumps



■ Elastomeric infusion pumps

☐ SILICONE BALLOON INFUSER

☐ ELASTOMERIC PUMP

※ Infusion pump – means Electronic infusion pump

☐ This product is mainly used after surgery in hospitals.

The most important factors

1. Accuracy in flow rate

2. Low defect rate

☐ Typically used for 48 hours until the wound heals.
(e.g. M2015R: approximately 50 hours)

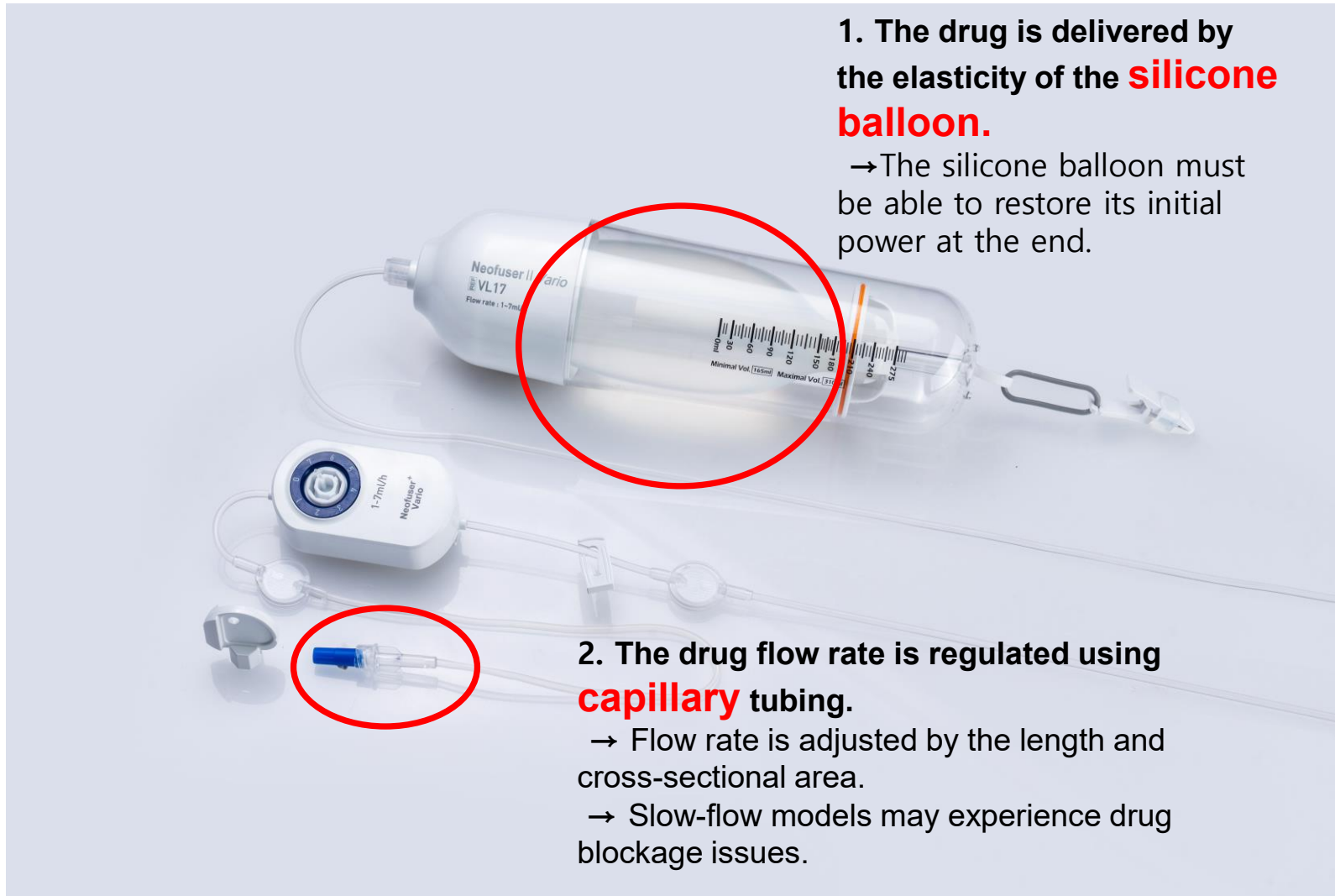
☐ Standard: ISO28620

☐ Sales structure: PCA pump accounts for 70% of our total sales.

☐ Fast flow – This is a critical defect that can lead to the worst-case scenario.

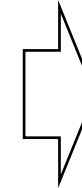
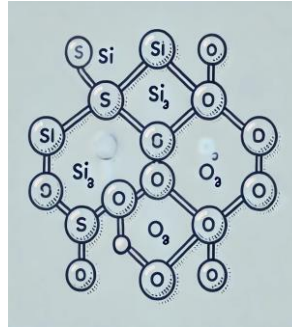
☐ Slow flow – Slow-flow models may experience drug blockage issues.

■ Operating Principle



■ Silicone Balloon for **accuracy in flow rate**

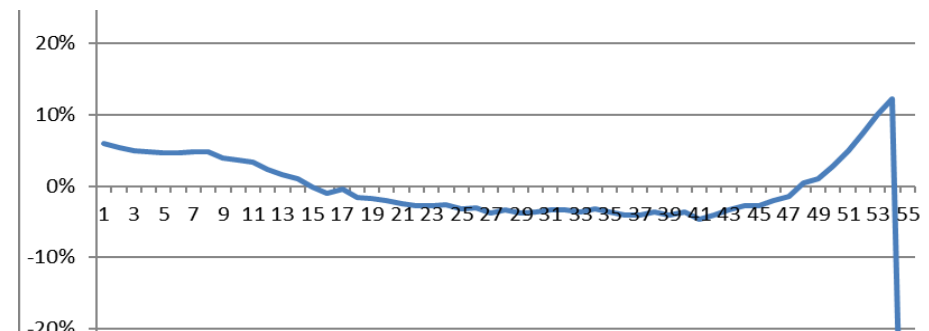
1. Silicone Compounding Technology



2. Silicone Extrusion and vulcanization Technology

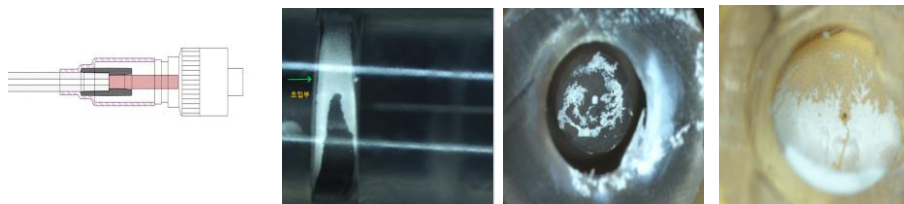


3. Silicone Property Retention Technology



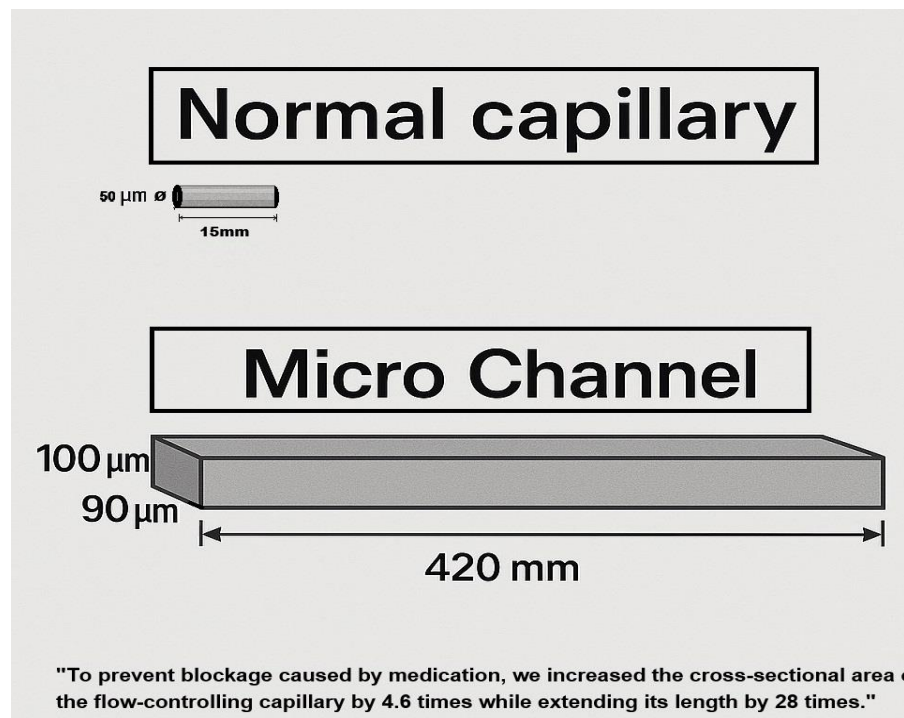
■ Capillary vs MICRO CHANNEL (Patents) to lower defect rate

1. Capillary

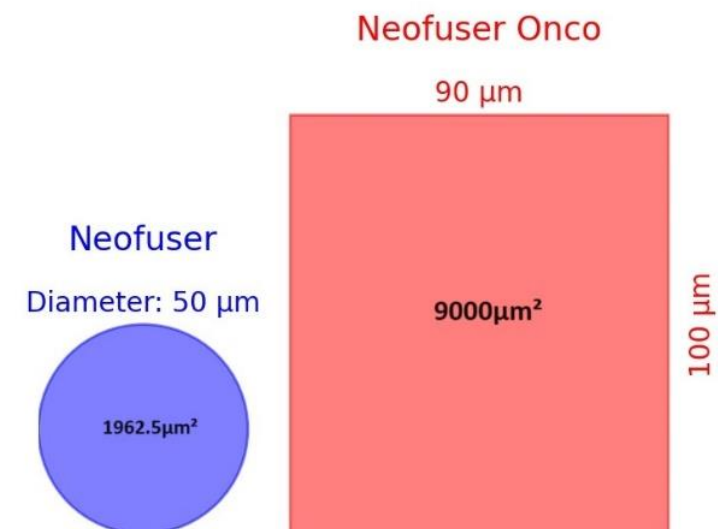


- 1 μm (**micrometer**) = 0.001mm (millimeter).
- **Capillary** has about 50 μm diameter
- **Micro channel** has 90 μm x 100 μm , cross-sectional area

2. MICRO CHANNEL is unique (Patents)



The cross-sectional area comparison of two models



■ MICRO CHANNEL

1. Length



Capillary **15mm** vs MICRO CHANNEL **420mm** 28times longer

■ MICRO CHANNEL

1. Video



Capillary **15mm** vs MICRO CHANNEL **420mm** 28times longer

■ MICRO CHANNEL used for Onco models



■ Flow rate test



■ Flow Rate Test Program

- ☐ If the reference temperature is 23°C and the actual temperature is 24°C, it must be compensated.
- ☐ A temperature difference of 1°C results in approximately 2% difference in flow rate.
- ☐ If the height increases by 10 cm, the flow rate becomes approximately 2% faster.
- ☐ For models where the flow controller contacts the skin, such as Onco and C type, testing is conducted at 32°C.

■ Flow rate comparison with competitors

Flow Rate Testing

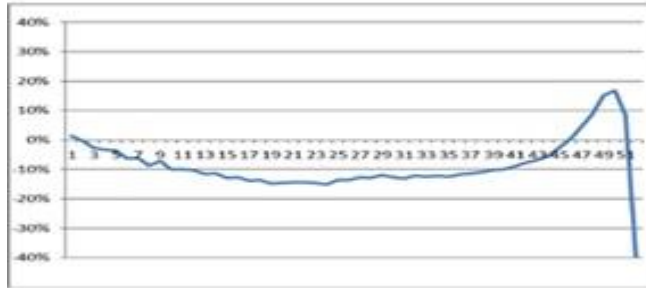


Figure 1

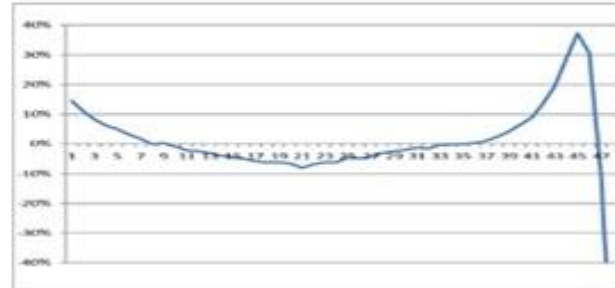


Figure 1.

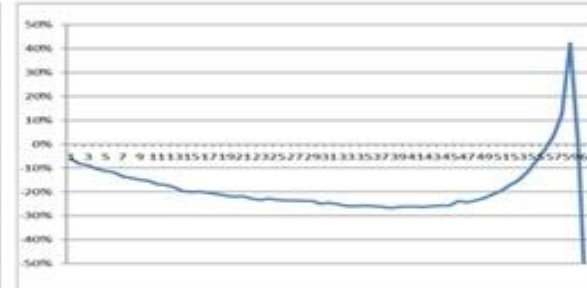
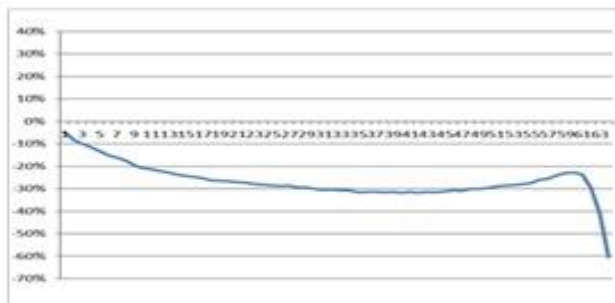


Figure 3.



Figure 4



Figure

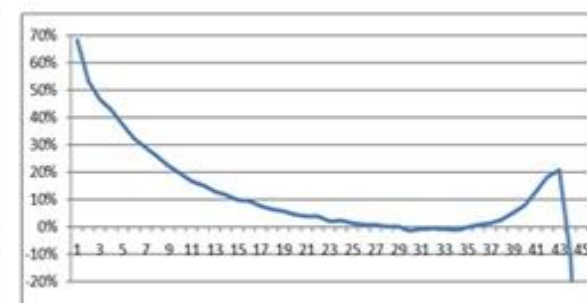


Figure 6.

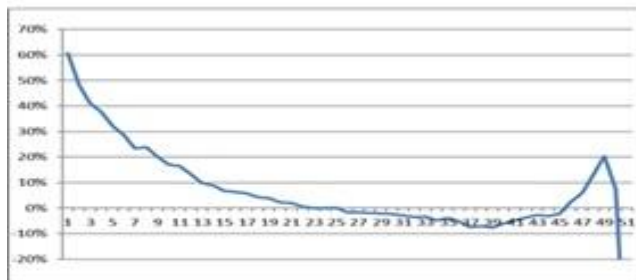


Figure 7

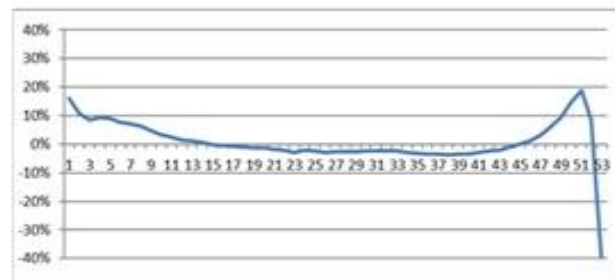


Figure 8. S&S-NeoFuser

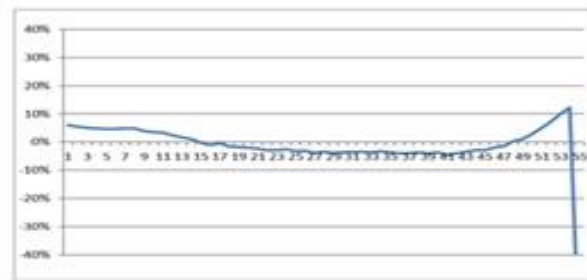


Figure 9. S&S-NeoFuser Onco