

MHPL LifeGuard DIAL FLOW REGULATORS

TEAR HERE



LIFEGUARD INFUSION SET

Vented

Fitted with Dial Flow Regulator

Non Toxic, Non Pyrogenic
Flow rate between 5-250ml.
Sterile By E.T.O.

1 SET

STERILE EO

 GRAVITY FEED ONLY

INSTRUCTIONS FOR USE:

1. Insert spike into the outlet of the solution container.
2. Fill the drip chamber up to half by squeezing and releasing.
3. Make sure the flow regulator is in an "off" position.
4. Prime the set with 10-20ml with appropriate solution.
5. Re clamp proximal (input) tube.
6. Connect output tube to IV Access.
7. Set desired flow rate by rotating the graduated marker.
8. Observe for adequate flow.



CAUTION

- *Do not use for blood or its derivative.
- *Do not use if package is opened or damaged.
- *Discard after single use, reuse of this device may change its mechanical or biological features and may cause device failure, allergic reactions or infection.
- *Do not use if protective caps are loose or missing.

Mfg. Lic. No. : G/28/574 Mkd By: Mecca Healthcare Pvt. Ltd.
Lot No. : 4046 Regd. Office: 102, G.I.D.C. Kalo (N.G.),
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TO BE SUPPLIED ONLY WITH MICRODOT INJ-10



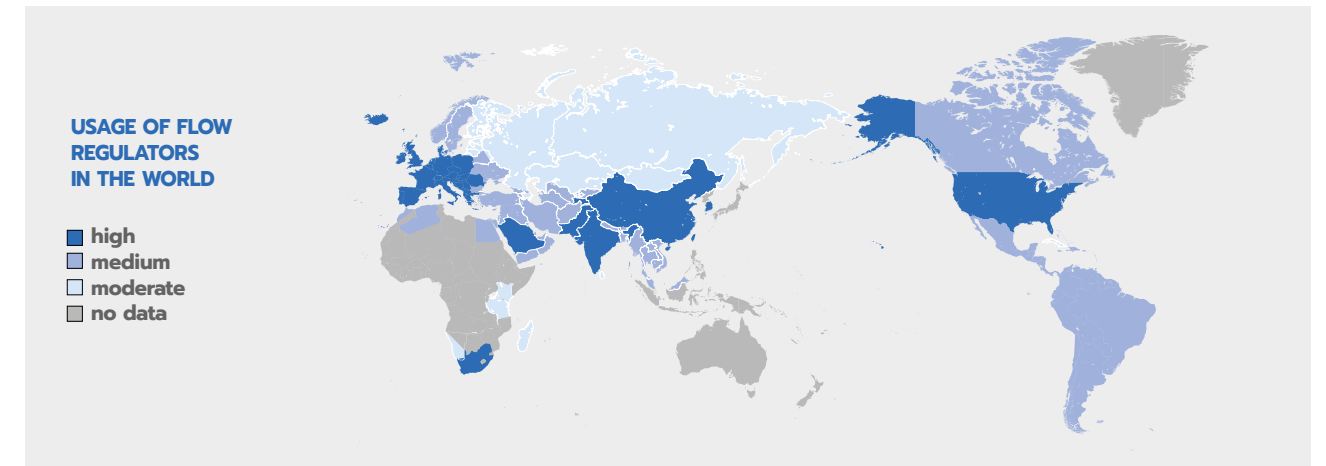




SLOW AND STEADY WINS THE RACE

If you try to find out an application in which flow rates are slower than in intravenous infusion, and still so vital, you understand that working in the range of some “ml/h” is only apparently an easy task.

MHPL LIFEGUARD DIAL FLOW REGULATOR



ABOUT I.V. FLOW REGULATORS

Flow Regulators are devices for the setting of flow rate during I.V. administrations.

PERFORMANCE:

An I.V. flow regulator assures an accurate and constant fluid flow rate over hours of delivery. The use of this device is intuitive and the effect on the flow rate is immediate. The regulation range is wide and progressive.

APPLICATION FIELDS:

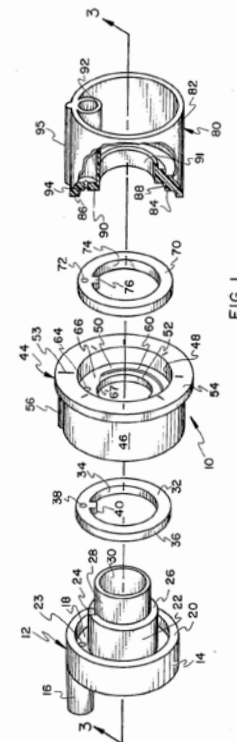
I.V. flow regulators find an intermediate market place between pumps and roller clamps.

STANDARD:

ISO 8536-13:2016 – Part 13 - "Graduated flow regulators for single use with fluid contact".

ORIGINS

I.V. flow regulators were invented by James Le Voy Sorensons (1921-2008, USA), who developed the "Dial-A-Flo"- the first infusion rate regulator - in 1976.



USES AND DISTRIBUTION

TYPICAL USES

hydration
analgesic sedation
antiviral
chemotherapy
parenteral nutrition

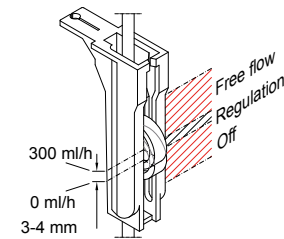
PRODUCT DISTRIBUTION

I.V. Flow regulators are employed in many countries around the world, included EU and US. It is estimated that a quantity between 100 and 150 millions of flow regulators is sold every year in the world.

DRUG ADMINISTRATION SYSTEMS

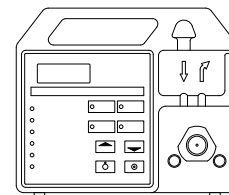
ROLLER CLAMP - GRAVITY FEED

- + low costs
- + no power required
- + no specialized training required
- not reliable
- unstable flow
- difficult setting



PRESSURE PUMP

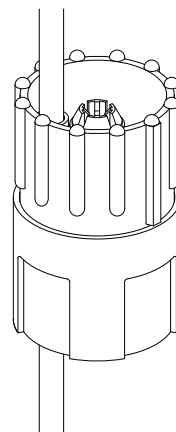
- + very accurate
- + suitable for all uses
- dedicated infusion sets
- high costs
- power needed
- specialized training required



Warning: pumps are active devices. In case of mistakes or malfunctioning, they may be harmful for the patient

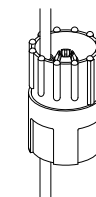
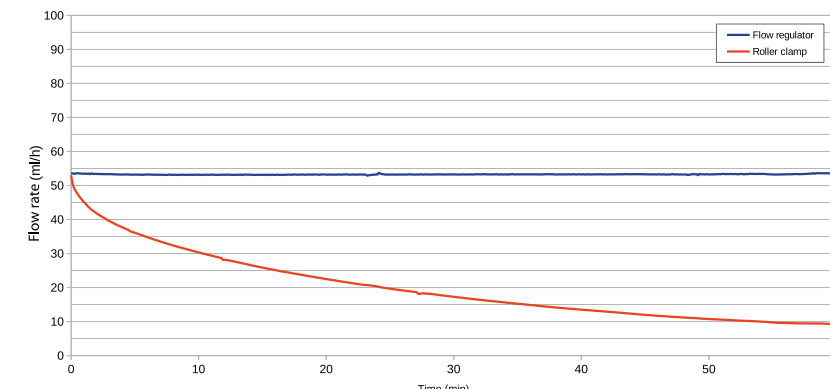
I.V. FLOW REGULATOR GRAVITY FEED

- + accurate and reliable
- + low costs
- + no power required
- + no specialized training required



COMPARISON BETWEEN ROLLER CLAMP AND I.V. FLOW REGULATOR

STABILITY OF FLOW RATE

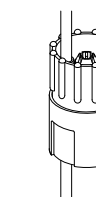
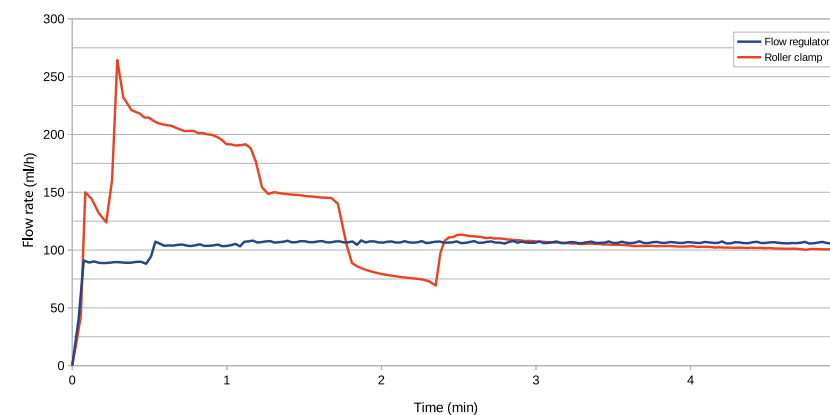


Constant flow



Unstable flow. There may be a flow decrease of 50% or more in 60 minutes and even flow interruption.

SETTING



Easy and intuitive regulation



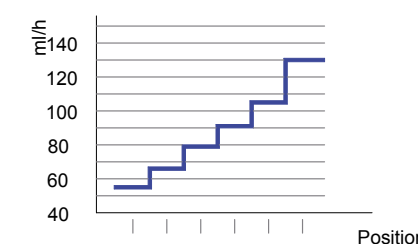
Very difficult regulation. The transition from free flow to no flow is confined in a space of just 3-4 mm

I.V. Flow regulator setting of the desired flow rate is an easy task, while it is quite complicated with a roller clamp, due to the lack of a reference scale and the very small regulation range.

The picture shows a comparison test between the two devices. With a flow regulator the desired flow rate of 104 ml/h is reached after 1,5 minutes in 3 steps.

With a roller clamp 3 minutes and 5 steps are necessary to reach the same flow rate. Furthermore, the continuous variation of the flow rate because of the tubing relaxation makes it hard to determine the instantaneous flow rate.

EASY TO SELECT DIFFERENT FLOW RATES



Flow rates measured in different positions of the graduated scale of a Dial Flow Regulator.

The flow regulator reference scale is a demonstration of how easily and gradually the flow rate can be modulated over the entire range of delivery.