



# Tecnoline

Medical & Surgical Solutions

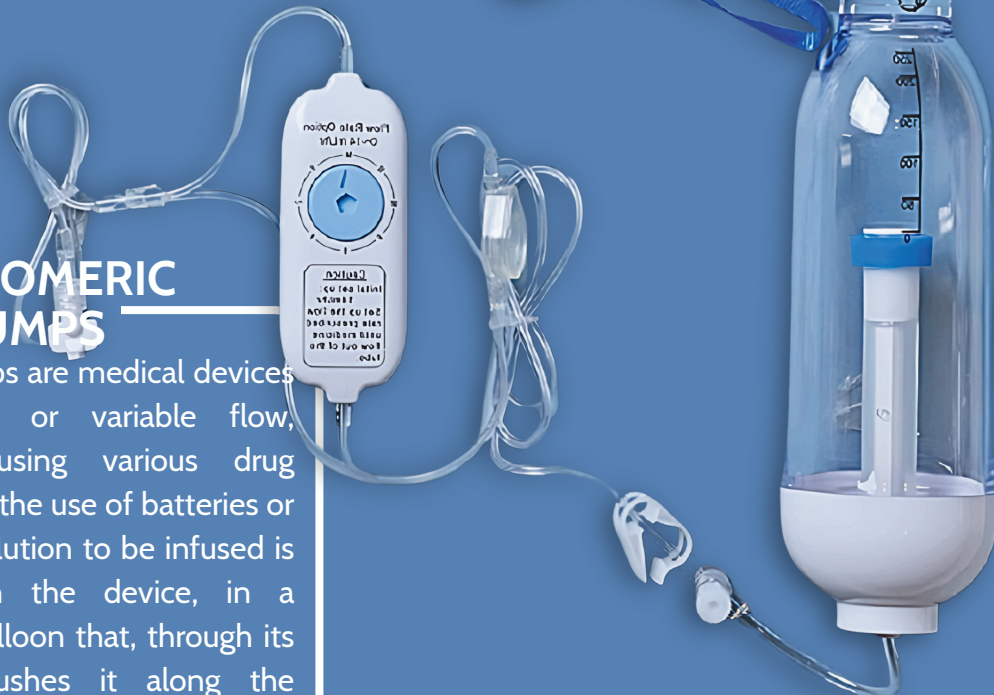
# ELASTOMERS

SCAN ME



## ELASTOMERIC PUMPS

Elastomeric pumps are medical devices with continuous or variable flow, capable of infusing various drug solutions without the use of batteries or electricity. The solution to be infused is contained within the device, in a medical-grade balloon that, through its elastic force, pushes it along the infusion line, through a filtering system, to the patient.



## TECHNICAL SPECIFICATIONS

Elastomeric pumps are composed of an internal balloon made of medical-grade silicone, capable of containing the solution and, through its elastic force, pushing it along the infusion line, through a bubble-trap filter, to the patient.

The amount of milliliters delivered per unit of time (flow rate) may depend on the following variables:

- ▶ Pressure differential  
(balloon pressure vs. backpressure from the “patient system”)
- ▶ Diameter of the capillary tube
- ▶ Viscosity of the solution to be infused
- ▶ Ambient temperature
- ▶ Positioning of the pump relative to the patient

It offers the best guarantee in terms of drug compatibility and stability, thanks to the specific materials used for the various parts that make up the pump. In particular, medical-grade silicone should be highlighted for its well-known biocompatibility and chemical inertness.

Elastomeric Pumps are phthalate-free (DEHP FREE), making them suitable for the administration of substances via intravenous, subcutaneous, and epidural routes, both in hospital and outpatient settings, for various therapies:

- ▶ CHEMOTHERAPY
- ▶ ANTIBIOTIC THERAPY
- ▶ SYSTEMIC ANALGESIA
- ▶ REGIONAL ANALGESIA
- ▶ IRON CHELATION

## PUMP COMPONENTS

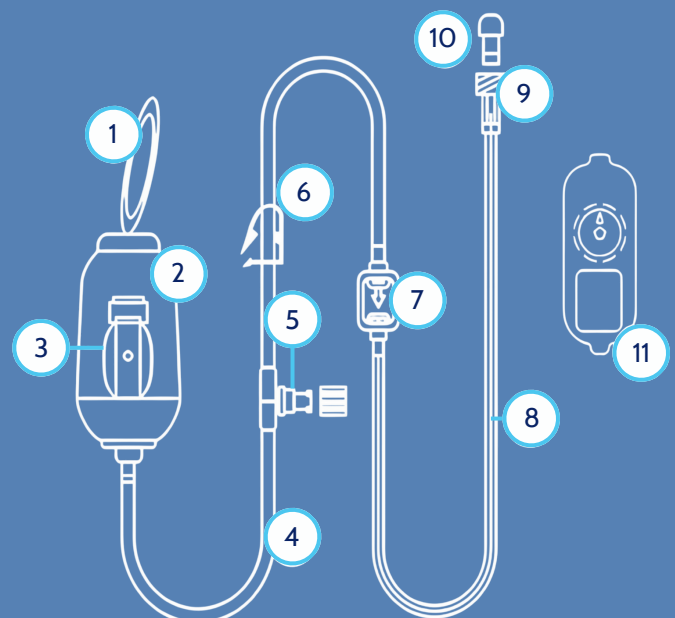
- |                              |                   |
|------------------------------|-------------------|
| 1. Carrying strap            | POLYESTER         |
| 2. Outer shell               | ABS-PP            |
| 3. Elastomer                 | MEDICAL SILICON   |
| 4. PVC tube                  | PVC DEHP FREE     |
| 5. Filling valve             | K-RESIN           |
| 6. Closure clamp             | PP                |
| 7. Bubble-trap filter        | ABS-PET-POLYESTER |
| 8. Calibrated capillary tube | PVC DEHP FREE     |
| 9. Male Luer Lock connector  | ABS               |
| 10. Labyrinth capsule        | PP                |
| 11. Flow regulator           | ABS-SILICON       |

Scale from 1 to 7 ml/h or 2 to 14 ml/h

## ADVANTAGES AND COMPOSITION

- ▶ The rigid external container, made of break-resistant materials, protects the balloon from accidental pressure that could cause an increase in the infusion flow or expose the balloon, potentially resulting in harm to the operator or the patient
- ▶ The filling port with luer-lock connection is equipped with a one-way valve and a safety cap
- ▶ The anti-crush infusion tube prevents accidental interruptions of therapy
- ▶ Its ergonomic shape ensures greater comfort for the patient
- ▶ The variable doser (where present) is equipped with a special key to prevent accidental changes in flow.

*The manufacturer cannot guarantee a constant flow due to the typical technical characteristics of the “variable flow elastomeric pump” device. As stated in Ministerial Circular No. 0004017-28/01/2015-DGDFSC-COD\_UOP, the mechanism of action of this device is particularly subject to external atmospheric factors such as temperature, humidity, and pressure, as well as intrinsic patient-related factors that only the physician can assess. Therefore, the manufacturer recommends using the device under strict medical supervision and monitoring its emptying at least once every hour.*



## ELASTOMERIC PUMPS WITH CONTINUOUS FLOW

### GUIDA ALL' ORDINE

CODE	DESCRIPTION	QUANTITY
TECO6002CIP	60ml pump, flow 2ml/h	10
TEC10002CIP	100ml pump, flow 2ml/h	10
TEC10005CIP	100ml pump, flow 5ml/h	10
TEC27505CIP	275ml pump, flow 5ml/h	30

## ELASTOMERIC PUMPS WITH VARIABLE FLOW

### GUIDA ALL' ORDINE

CODICE	DESCRIZIONE	QUANTITA'
TEC275ABVIP	275ml pump, flow from 1 to 7 ml/h	30
TEC275ACVIP	275ml pump, flow from 2 to 14 ml/h	30
TEC100ABVIP	100ml pump, flow from 1 to 7 ml/h	10
TEC100ACVIP	100ml pump, flow from 2 to 14 ml/h	10

#### THE PUMPS ARE TESTED FOR:

- Skin reaction (ISO 10993-10)
- Cytotoxicity (ISO 10993-5)
- Hemolysis and hemocompatibility (ISO 10993-4)
- Acute systemic toxicity (ISO 10993-11)
- Allergic sensitization (ISO 10993-10)



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