

SPECIFICHE TECNICHE

Le Elastomeric pumps consist of an internal balloon made entirely of medical-grade silicone, which contains the solution and, with its elastic force, pushes it along the infusion line through a filter system to the patient. The amount of millilitres delivered per unit of time (flow) may depend on the following variables:

- **Pressure differential**
(balloon pressure versus 'patient system' pressure)
- **Diameter of the capillary tube,**
(depending on its diameter, the flow rate changes)
- **Viscosity of the solution**
(viscosity of the final solution to be infused)
- **Temperature**
(temperature can affect flow velocity)

It offers the best guarantee, from the point of view of drug compatibility and stability, due to the specific, high quality materials used for the different parts of the pump. Of particular note is the medical grade silicone for its known biocompatibility and chemical inertness.

It is also free of latex and phthalates (DEHP), so it is suitable for intravenous, subcutaneous and epidural inpatient and outpatient drug administration for different therapies:

- **CHEMOTHERAPY,**
- **ANTIBIOTIC THERAPY,**
- **SYSTEMIC ANALGESIA,**
- **REGIONAL ANALGESIA,**
- **IRON CHELATION.**

LA POMPA STATO TESTATO PER COMPATIBILITÀ E STABILITÀ DEI FARMACI USATI PIÙ FREQUENTEMENTE:

Acyclovir sodium
Amikacin sulfate
Amphotericin B
Ampicillin sodium
Ampicillin sodium-Sulbactam sodium
Aztreonam
Bupivacaine Hydrochloride
Carboplatin
Cefazolin sodium
Cefepime Hydrochloride
Cefotaxime

Ceftazidime
Ceftriaxone sodium
Cefuroxime
Ciprofloxacin
Clindamycin Phosphate
Cyclophosphamide
Deferoxamine mesylate
Doxorubicin Hydrochloride
Fluconazole
5 fluoracil and morphine
... etc

THANKS TO ITS BROAD VERSATILITY, THE PUMP CAN BE USED IN COMPLETE SAFETY FOR THE PATIENT AND THE OPERATOR::

- The rigid outer container is made of break-proof materials and protects the flask from accidental pressure that could cause the infusion flow to increase or the flask to explode with possible injury to the operator or patient.
- The filling port with luer-lock connection is equipped with a special anti-reflux valve and an additional safety cap.
- Anti-crushing infusion tube to prevent accidental interruption of therapy
- 5 µ solution filter with reservoir for collecting harmful gases to prevent aerosols of the same in ambient air
- Additional UV protection to be applied only when necessary
- Ergonomic shape for greater patient comfort
- Variable metering unit equipped with a special key to prevent unintentional flow changes
- Flow accuracy is ensured even with partial balloon fillings. The expected flow variation is + 10 % for fillings up to 80-60 % of the nominal volume (for fillings below 60 % the expected variation is more than 10 %).
- For filling the silicone reservoir, the force to be applied can vary from 4.2 kg to 4.5 kg depending on the model and drug density.

THE PUMP IS TESTED FOR:

- **skin reaction ISO 10993-10**
- **cytotoxicity ISO 10993-5**
- **haemolysis and haemocompatibility ISO 10993-4**
- **acute systemic toxicity ISO 10993-10**
- **allergic sensitisation ISO 10993-10**



Tecnoline S.p.A.
Registered Office Via Gelatti 11/A - 41033 Concordia sulla Secchia - Modena - Italy
Headquarters Via Gelatti 11/A and 18 - 41033 Concordia sulla Secchia - Modena - Italy
T (+39) 0535 40312 M info@tecnoline.med.com



ELASTOMERIC INFUSION PUMPS

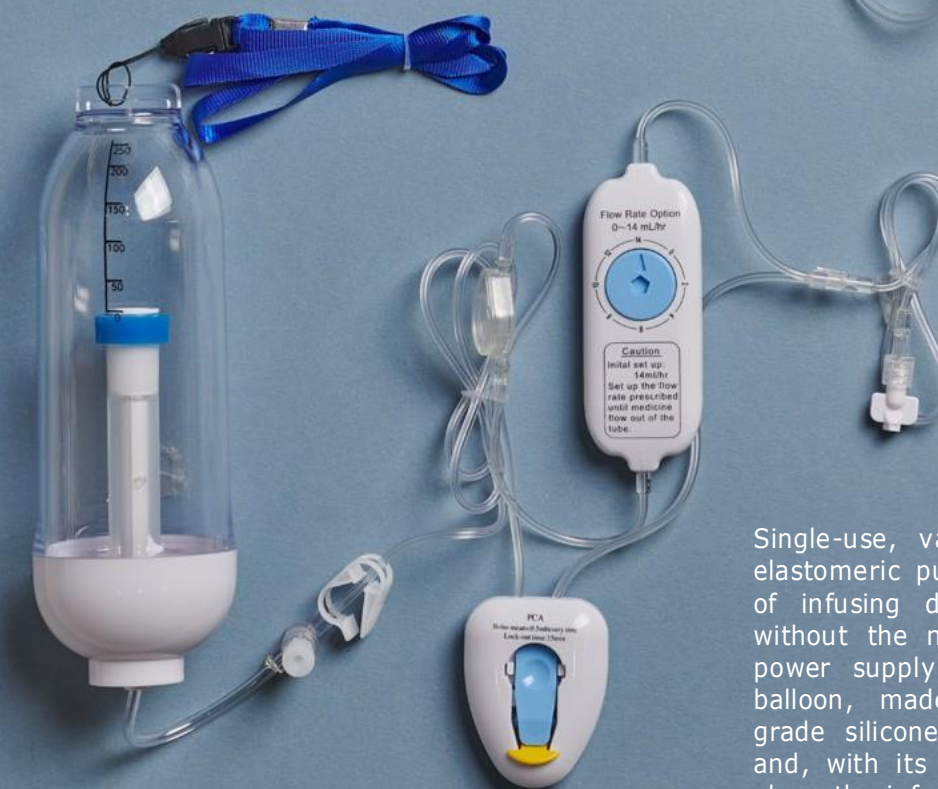
MULTITEC



FLOWTEC



MULTIPECT



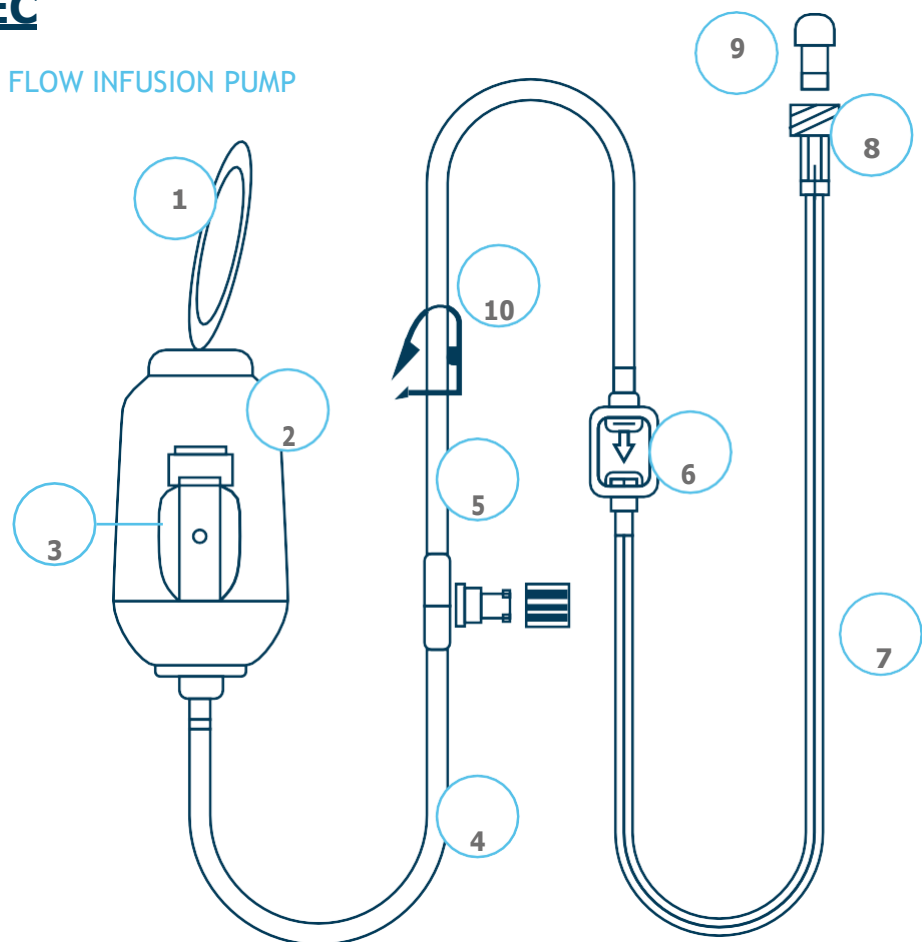
Single-use, variable, continuous-flow elastomeric pump with bolus capable of infusing different drug solutions without the need for batteries or a power supply. In fact, the internal balloon, made entirely of medical-grade silicone, contains the solution and, with its elastic force, pushes it along the infusion line through a filter system to the patient. The infusion speed can be regulated by the capillary tube (FLOWTEC), by a flow regulator (MULTITEC) and there is also a model with variable flow and bolus option (MULTIPECT).



COMPANY WITH MANAGEMENT CERTIFIED SYSTEM ISO 13485:2016 IMQ

FLOWTEC

CONTINUOUS FLOW INFUSION PUMP



- | | | | | | |
|---|-----------------|----------------------|----|----------------------|----------------------------|
| 1 | Transport strap | POLIESTERE | 6 | Filtro prendi bolle | ABS.PET. POLIESTERE |
| 2 | Outer shell | ABS-PP-ABS | 7 | Infusion capillary | PVC DEHP FREE |
| 3 | Elastomer | SILICONE | 8 | Connection | LLM ABS |
| 4 | PVC Tube | PVC DEHP FREE | 9 | Lab closing capsule. | PP |
| 5 | Filling valve | K-RESIN | 10 | Locking clamps | PP |

GUIDA ALL'ORDINE

I.D. COMPANY	RESERVOIR CAPACITY	FLOW	TYPE OF SOMMINISTRATION	PRODUCT FAMILY	PCS/PKG.
TEC	060	0,5ml-h	C	IP	75
	100	1,5ml-h			
	120	2 ml-h			
		4ml-h			
	150	5 ml-h			
		8 ml-h			
	200	10 ml-h			
		20 ml-h			
275	50 ml-h				
	100 ml-h				

CODING EXAMPLE

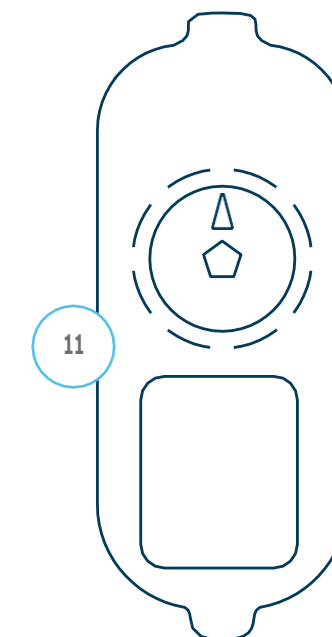
INFUSION PUMP CAPACITY 60ML FLOW 2ml-h

MULTITEC

PO VARIABLE-FLOW ELASTOMERIC PUMP WITH 2 DIFFERENT SCALES:

AB RANGE FROM 1 to 7 ml/h with a variation of 1 ml/h

AC RANGE FROM 2 to 14 ml/h with a variation of 2 ml/h



11 ABS-SILICONE flow regulator

COD.

DESCRIPTION

PCS/PKG.

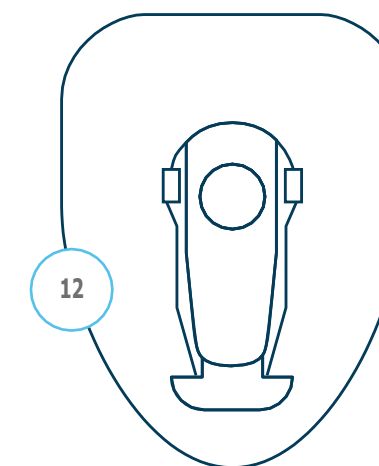
TEC060ABVIP	Pump 60ml flow rate 1 to 7 ml/h	75 pz
TEC060ACVIP	Pump 60ml flow rate 2 to 14 ml/h	75 pz
TEC100ABVIP	Pump 100ml flow rate 1 to 7 ml/h	75 pz
TEC100ACVIP	Pump 100ml flo2 rate 2 a 14 ml/h	75 pz



MULTIPTEC

VARIABLE FLOW ELASTOMERIC PUMP AND PCA

AB RANGE FROM 1 to 7 ml/h with a variation of 1 ml/h
AC RANGE FROM 2 to 14 ml/h with a variation of 2 ml/h



12 PCA

SILICON

COD.

DESCRIPTION

PCS/PKG.

TEC060ABPIP	Pump 60ml flow rate 1 to 7 ml/h with bolo	75 pz
TEC060ACPIP	Pump 60ml flow rate 2 to 14 ml/h with bolo	75 pz
TEC100ABPIP	Pump 100ml flow rate 1 to 7 ml/h with bolo	75 pz
TEC100ACPIP	Pump 100ml flow rate 2 to 14 ml/h with bolo	75 pz

