

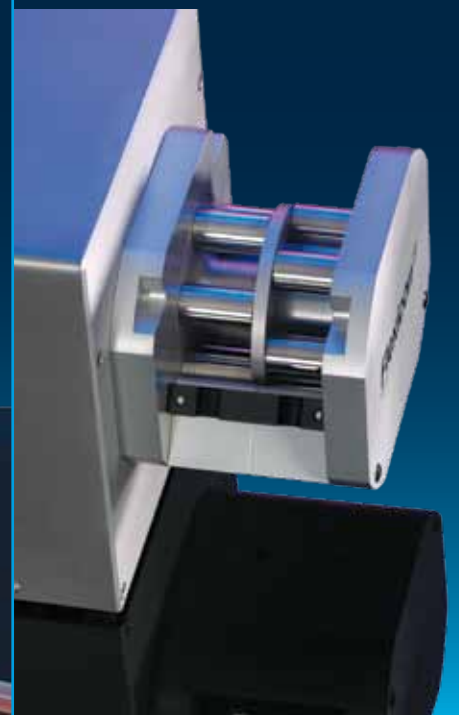
PD221

INDUSTRIAL PERISTALTIC FILLING MACHINE

- No cross contamination
- Accuracy +/-0.5%
- 5 to 5,000 ml
- Drip-free
- Change of product in 1 minute

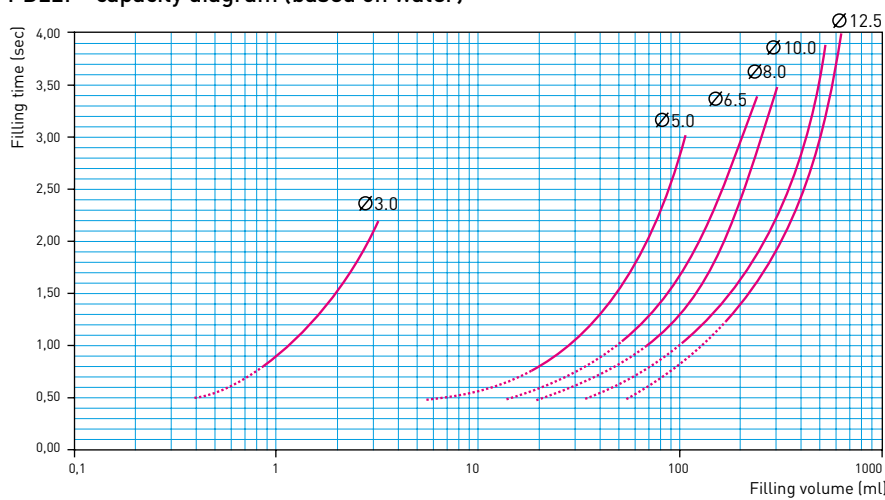


WORLD LEADERS IN ASEPTIC PERISTALTIC FILLING



PD22I TECHNICAL SPECIFICATIONS

PD22I – capacity diagram (based on water)



PD22I is a part of Watson-Marlow Flexicon's Multi Filling System. The peristaltic filling principle is the fastest growing in the pharmaceutical industry due to well-established advantages such as sterility, guarantee against cross contamination and easy cleaning. These are achieved by the fact that the product is in contact only with the medically approved tubing and filling nozzle.

PD22I is an extremely flexible liquid filling station, which can fill volumes from 5 ml to more than 5,000 ml with an accuracy better than +/-0.5%. This outstanding flexibility and accuracy is achieved without having to change anything but the dimension of the tubing in use.

PD22I is equipped with the well-proven Watson-Marlow Flexicon quick-change peristaltic head in which two parallel tubes are squeezed by 12 offset rollers. This head design provides a very stable flow and handles the product gently.

Products with living cells can be filled without harming the cells. This feature makes the PD22I ideal to fill sensitive products such as biotech, genetic and blood products.

PD22I is operated through the MC12 control panel and it is only a matter of loading the tube and typing in the filling parameters on the key pad - all done in less than 3 minutes. As PD22I maintains a closed fluid path from the bulk product container to the end of the filling nozzle, substitution of this fluid path means that PD22I is instantly cleaned and ready for the next operation.

PD22I is designed for use in cleanroom environments for production complying with cGMP and its outstanding performance and reliability is demonstrated by the many hundreds of installations world-wide. PD22I is a part of the product program, which has proved Watson-Marlow Flexicon to be the world's leading manufacturer of peristaltic filling systems.

Filling volume:
 5 ml to more than 5,000 ml

Accuracy:
 Better than +/-0.5%

Flow:
 150 to 11,000 ml/min.

Pump head:
 Peristaltic quick-change head in anodised aluminium, 12 offset rollers in AISI304 stainless steel and on ball bearings

Tubes:
 Watson-Marlow Flexicon silicone tubes with a 2.5 to 3.5 mm wall. The tubes are approved for pharmaceutical use, according to FDA and USP standards. The tubes are available in other materials as well

Tube sizes:
 3.0 - 5.0 - 6.5 - 8.0 - 10.0 - 12.5 mm i.d.

Mains:
 110/230 VAC earthed, 50/60 Hz

Power consumption:
 Max. 350 W

Cabinet:
 Anodised aluminium and stainless steel

Ingress protection:
 IP54

Weight:
 24 kg

Interface:
 RS-485 multi-drop
 1 x (5-50 VDC) input for start
 1 x (5-50 VDC) input for disabling drive
 2 x open collector outputs for status

Accessories:
 Filling nozzles, filling stands, foot switch and tubes, etc.

