

BioDuo[®] Smooth Flow

High Precision With Low Pulsation



RESOLVE[™]

SMALL | SMART | SPECIFIC

Smooth Flow series of pumps are used for aseptic liquid dispensing at extremely low pulsation. The 8 rollers in the Smooth Flow series of pumps provide highly precise flow rates, for applications from media preparation to sample preparation, by efficiently dispensing all types of liquids, even highly viscous ones.



x15
in 1 min
5mL



x6
in 1 min
25mL



x4
in 1 min
50mL

Distribution Accuracy & Reproducibility

- **Accuracy** better than 1%
- **Reproducible** results over long dosing distributions.
- In compliance with ISO 6887 and ISO 7218 standards.



Integrated Scale

- Integrate BioDuo SmoothFlow series with weighing station with ease.
- Autocalibration with customizable frequency during your dispensing series.

Simplified Distribution

- Cross-contamination-free liquid transfer.
- Compact on the bench or under the LAF, BioSafety, other Process Safety Management equipment.

APPLICATIONS

- **Distribution:** Dilution tubes, bottles, jars, flasks, filter bags, sampling, ...
- **Pouring of Petri dishes**

BioDuo® Scale is specially designed for:

- **Big-Volume dispensing** for solid sample preparation.
- Preparation of **sampling wipes** for PCR.
- **Soil Chemistry:** Sample preparation for soil & sewage analysis.



Food and
Beverages



Chemicals



Pharmaceutical



Environmental



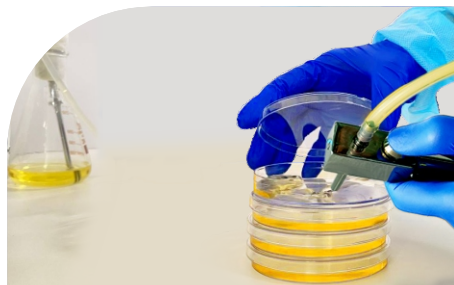
Bio Processing



Cosmetics

FLEXIBILITY AND ADAPTABILITY

The pump that fits all your dispensing needs



DISPENSING MODES

Single Dose
Multi-dose
Dose on scale



Wide range of volumes

Dispenses from 50µL to 99L in all types of containers (petri dishes, test tubes, vials, bottles, single use bags, sampling bags)



Accelerated flow

BioDuo SmoothFlow Series offers precision flow rate of upto 200mL per minute for your sample processing.

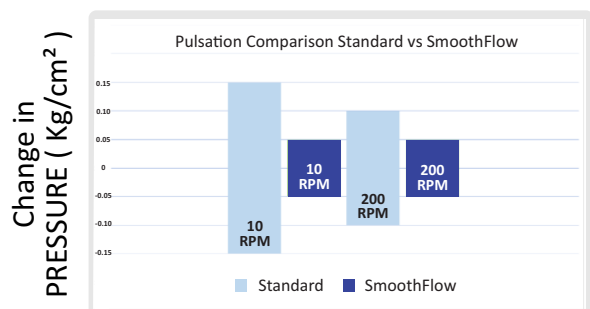


Multiple Dispensing Options

Handy gun
Adjustable Dispensing Stand



PULSATION COMPARISON



Dosing accuracy with 3.2 mm ID tubing

10 mL	25 mL	50 mL
± 0.1 %	± 0.5 %	± 0.9 %

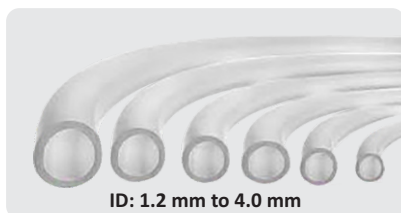
TECHNICAL SPECIFICATIONS

OVERVIEW	
3 Dispensing Modes	✓
Handy Gun Compatible	✓
Traceability (with Bluetooth Printer)	✓
Low Pulsation	✓
High Accuracy, High Flow	✓
SPECIFICATIONS	
Volume Dispensed in Single Dose & Multi-Dose mode	0.05mL to 250mL
Volume Dispensed in Dose on Scale	50 g to 10 kg
Weighing Resolution	1 g
Dosing accuracy	10mL: $\pm 0.5\%$ 25mL: $\pm 0.25\%$ 100mL: $\pm 0.15\%$
Accuracy range of weighing scale	$\pm 1\%$ at 150 RPM
Dispensing modes	RPM, Flow, Multidose, Dose on Scale
Number of customizable profile	100
Multi-dose pause	Adjustable from 1 min to 24 hours
Flow Rates	0.01mL /min to 250mL/min
Pump head rotating speed	0.1 to 200 RPM
Tubing Material	Silicone
Voltage-Frequencies	Compatible with 210-240V - 50-60Hz Single Phase Adapter
Warranty	1 Year
TRACEABILITY	
Traceability	3 Level Logins, dose time, dose volume
Connections	RS-232, 4-20mA, 0-10V Bluetooth
WEIGHT AND DIMENSIONS	
Dimensions (L x W x H)	294 mm x 171 mm x 186 mm
Net weight	5 kg
Box dimensions (w x d x h)	14 x 12 x 13 inches
Gross weight	~8 kg

Delivered with 2 Resolve® SmoothFlow Heads,
1 x 4mm ID Tubing, 1 user manual, 1 Power Adapter



Product made by
Resolve Biotech an
ISO13485 certified company.



Wide range of tubings
From 1.2mm to 4mm to adapt
flow/accuracy to all your
applications. Refer tubings guide.



Traceability
All distribution parameters
are Printable using
Bluetooth Printer.

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