

# BioDuo<sup>®</sup> Smooth Flow Series

High Precision with Low Pulsation



**Resolve** ::

**SMALL | SMART | SPECIFIC**

SmoothFlow Series of pumps are used for extreme low pulsation aseptic liquid dispensing. The 8 rollers in the SmoothFlow 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

Continuous Dose  
Multi-dose  
Dose on scale



### Wide range of volumes

Dispenses from 50uL 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.

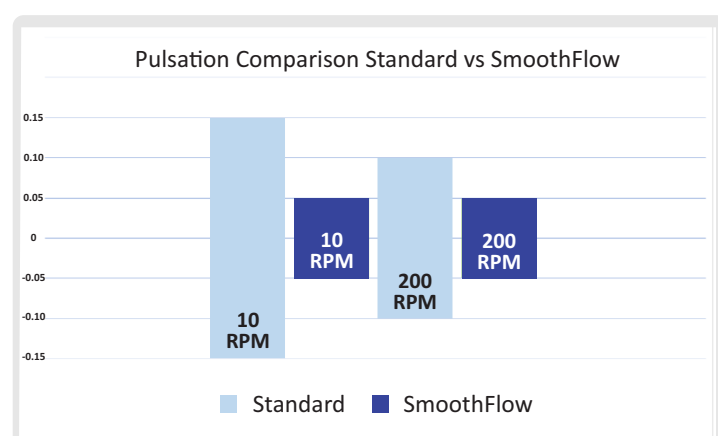


### Multiple Dispensing Options

Handy gun  
Adjustable Dispensing Stand



## PULSATION COMPARISON



### Typical accuracy with 3.2 mm ID tubing

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

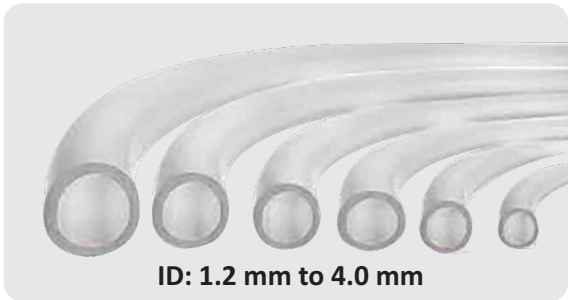
# TECHNICAL SPECIFICATIONS

	BIODUO + SMOOTH FLOW HEAD	
OVERVIEW		
3 Dispensing Modes	✓	
Handy Gun Compatible	✓	
Traceability (with Bluetooth Printer) <sup>(1)</sup>	✓	
Low Pulsation Pump	✓	
High Accuracy, High Flow Pump	✓	
SPECIFICATIONS		
Volume Dispensed in Dose & Multi-Dose mode	0.05mL to 250mL	
Volume Dispensed in Dose on Scale	50 g to 10 kg	
Weighing Resolution	1 g	
Weighing resolution up to 200g	10mL: ± 0.5%   25mL: ± 0.25%   100mL: ± 0.15%	
Accuracy range of weighing scale	±1% at 150 RPM	
Dispensing modes	Continuous, Multidose, Dose on Scale	
Number of customizable programs	100	
Multi-dose pause	Adjustable from 1 min to 24 hours	
Flow Rates	0.01mL to 250mL	
Pump head rotating speed	0.1 to 200 RPM	
Tubing Material	Silicon	
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 x 171 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 Handy Gun, 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 traceable. Bluetooth Printer.

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