




# DuoFill™ Single-Use Bulk Filling System

High Precision, High Efficiency, Easy to Use, and Versatile





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As the pharmaceutical industry develops, manufacturing scales and the number of batches are increasing. Traditional manual methods can no longer meet the current requirements for bulk filling. The fully automated bulk filling system can achieve rapid filling and audit-matching data recording. It solves the problem of quickly performing aseptic bulk filling in clean rooms and provides a better solution for subsequent product data audit tracking.

### **Product Highlights:**

- Single-use and fully closed design. No valve, less hold up
- Gravimetric method and Flow Rate method supported. Filling accuracy:  $\pm 1\%$
- Flexible recipe editing and parameter setting. The system can automatically recognize weight gain or weight loss filling modes after the parameters are set.
- Built-in automatic filtration program: Supports constant flow/constant pressure filtration and sterile filtration operations
- Meet the requirements for research, pilot and commercial scales: suitable for freeze-thaw bags, storage bags, or bottles. All parts of the system can be quickly reassembled.
- Compact footprint: Can be placed on a desktop and used within standard laminar flow hoods or ultra-clean benches
- The system can be integrated with mixers, weighing system, and power system. Which enhances the automation and intelligence of the filling procedures.
- 12 reserved sensor ports and 2 network interfaces: Easily integrate on-site instruments or upload data.
- The control system complies with GMP requirements and responds quickly, with a startup time less than 1 minute.



## System Application:

>Bulk Filling      >Intermedium Filling      >CCM Filling      >Buffer Filling

## Function Modules:

Sterile Filtration – Exhausting and Purging – Pressure / Flow / Weight Monitoring –

Data Integrity –External Devices Communication and Interaction

## Ordering Information:

Type	Ordering Number	Configuration
Standard	DuoFill-A-10	Standard Host ×1, Mixer Hold ×1, Filling Plate×1
Enhanced	DuoFill-B-10	Enhanced Host ×1, Mixer Hold ×1, Filling Plate×1



## Specification:

Item	Description
Shell Material	ABS
Protection Rating	IP54
Host Dimensions	545*420*500 (L W H) /mm
Single Filling Volume	≥100mL
Filling containers	Bags & Bottles
Holder	Any form, such as stands, carts, trays, etc.
Filling accuracy	±1% *To ensure filling accuracy, the weighing unit accuracy should be better than 0.5% in the weighing filling mode, and the flow meter accuracy should be better than 0.5% in the flow rate filling mode.
Maximum processes / cycle	10 + 1 (Exhaust and Purge)
Peristaltic Pump integrated Maximum Flowrate	3.4 L/min
Single-use pressure sensor	0-60 PSI Accuracy: <5%
Tube-clamp Flowmeter	0-15L/min Accuracy:<3%
Printer	Thermal non-adhesive printer
RJ45 Interface	2
Weighting signal input	Any weighing unit supporting serial interface transmission
System Control	Siemens PLC + 13" Monitor IPC
Operation Method	Finger touch/active stylus/VNC remote operation
Data Storage	Encrypted database, storage capacity ≥10 years
Authority Control	9-level user management, customizable user group permissions
Domain Account Management	Supported
Audit	Supported
Electronic Signature	Supported
Recipe Management	Supported
Inline Calibration	Supported
Batch Management	Supported
Alarm and Interlock	Supported
Online Backup and Recovery	Supported
Scheduled Backup	Supported
Scada Protocol	OPC UA、Modbus TCP/IP
Report	PDF
Language	Chinese / English
Power	90-260V AC 50/60Hz 2kW
Utility	No need for compressed air/purified water/water for injection



## Photo of the Host:



## Interconnectable Modules:



Mixing holder



Mixing System



Peristaltic Pump

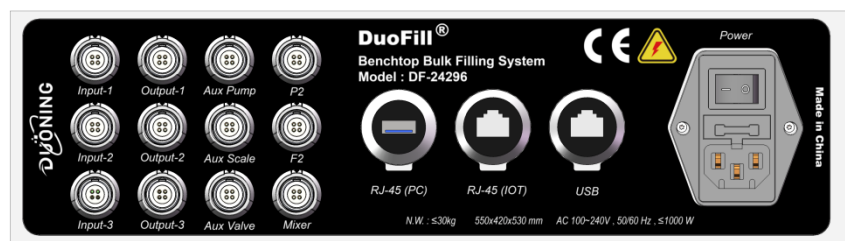


Weight Scale



Filling Hold

## Module Interface:



## Duoning Biotechnology Group

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