Integrated Filling System

DF600

304 SS Housing

Features

Integrated design, one controller can control 4 groups (total 16) filling units.

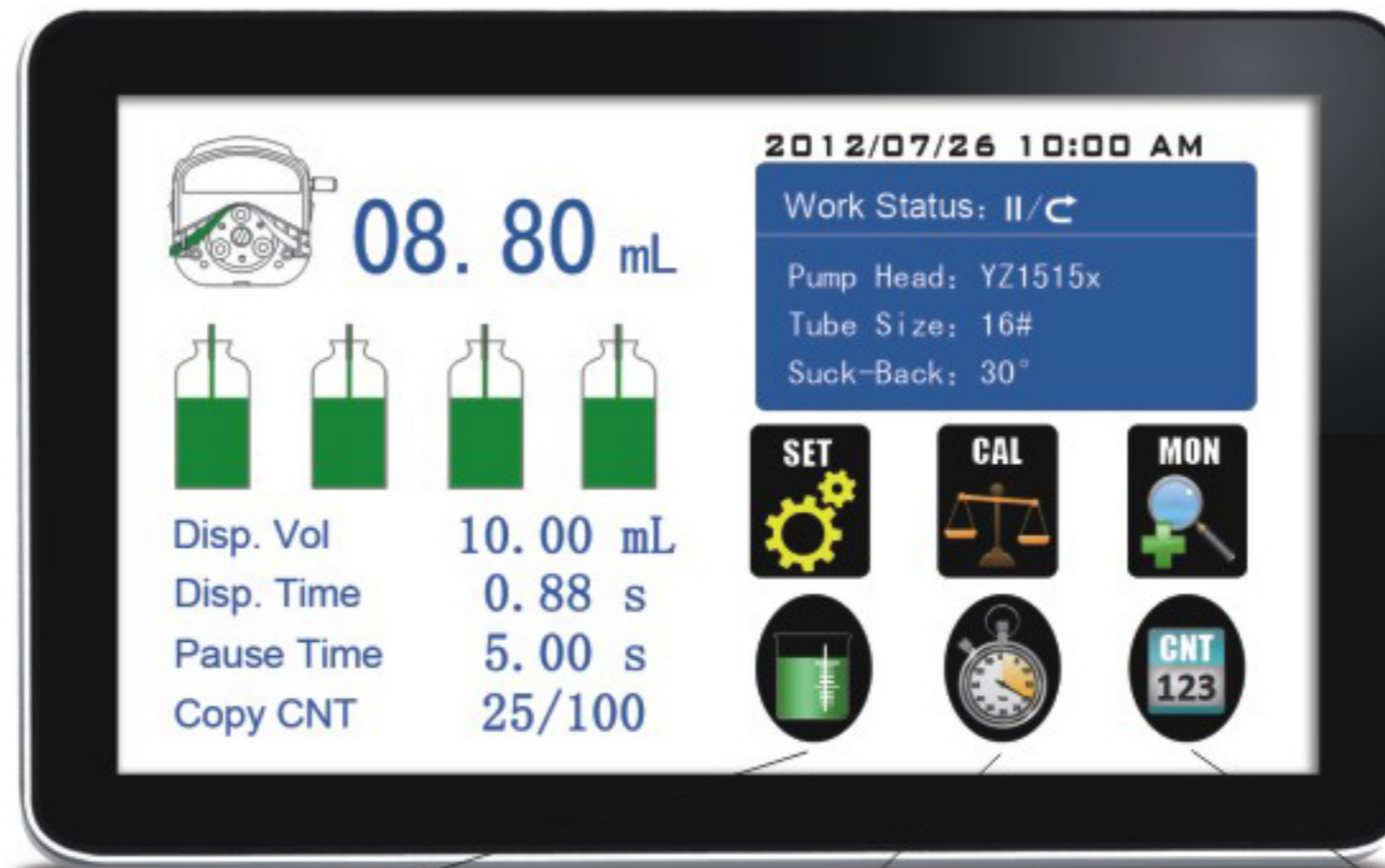It can support the production filling line, store 60 commonly used filling modes.

Each filling unit can independently receive stop filling signal when bottle absent.
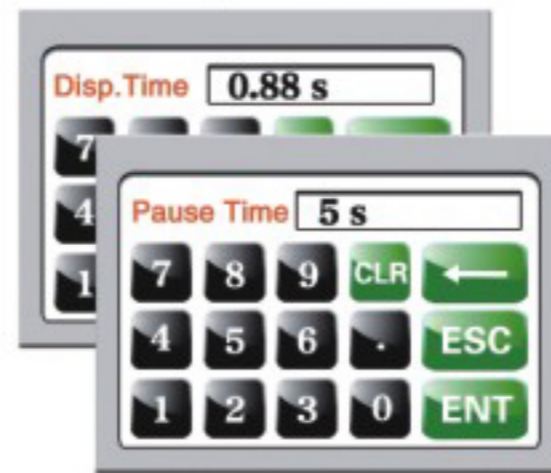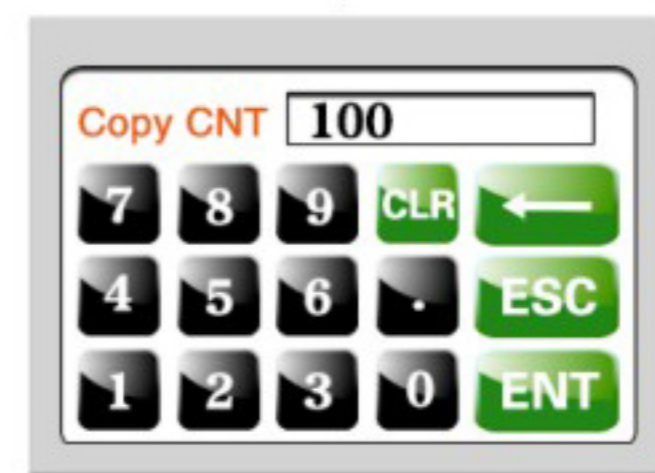
Model Number

DF600

Typical Application

Pharmaceutical, health product filling, diagnostic reagent dispensing.

Food, beverage filling.

Cosmetic filling.

Dispensing volume interface

Dispensing time and pause time interface

Copy numbers interface

Integrated Filling System

Product Introduction

DF servo control series is integrated type intelligent filling system with high precision and low pulsation driven by servo motor. It is composed by control unit and integrated type filling units, each group have 4 filling units, total 16 filling units. This system use imported 4.3'' industrial grade true color display with touch screen control, can preset filling volume, filling time, pause time, copy numbers and back-suction angle. Dynamics display working status, filling data, setting parameter, system configuration display at the same screen; with intelligent calibration and online micro adjust function. Can connect foot pedal and receive switch signal, realize long-distance control. With motor working status output signal, can let other equipment realtime monitor the current filling status of peristaltic pump. This filling system use servo motor, and high precision, low pulsation pump head to make the filling precision higher, up to 0.1%-0.6%, make the micro volume and big volume high precision filling come true.

The pump type suffixed with "Plus" support MODBUS communication protocol						
Drive	Pump Head	Flow Rate (mL/min)	Motor Type	Drive Dimension (L×W×H)	Power Consumption	Drive Weight
DF600	YZ1515x	0.07~2280	Stepper motor	706×250×186mm	Each Unit<50W	21.8kg
	YZ2515x	1.7~1740				

Product Composition and Flow Rate Range						
Drive	Pump Head	Pump Head Material	Tube Clamp Material	Tubing		(Motor Speed 1~600rpm)
				Tubing size	ID×Wall Thickness	Flow Rate mL/min
DF600	YZ1515x	PSF PPS	——	13#	0.8×1.6 (mm)	0.07~42
				14#	1.6×1.6 (mm)	0.27~162
				19#	2.4×1.6 (mm)	0.55~330
				16#	3.1×1.6 (mm)	0.82~492
				25#	4.8×1.6 (mm)	1.7~1020
				17#	6.4×1.6 (mm)	2.9~1740
				18#	7.9×1.6 (mm)	3.8~2280
	YZ2515x	PSF PPS	——	15#	4.8×2.4 (mm)	1.7~1020
				24#	6.4×2.4 (mm)	2.9~1740

Filling Volume Reference (Media is water)							
Drive	Pump Head	Tubing	Filling Volume (mL)	Filling Time (s)	Accuracy (±%)	Output (pcs/min)	Motor Speed (rpm)
DF600	YZ1515x YZ2515x	13#	0.1	0.5	±5ul	40	204.083
		13#	0.3	0.7	1.5	35	426.251
		13#	0.5	1	0.8	30	516.081
		13#	1	2	0.5	20	517.152
		14#	2	1	1	30	446.724
		14#	3	1.5	0.8	24	446.479
		19#	5	1.2	1	27	454.919
		16#	7	1	0.5	30	457.705
		25#/15#	10	1	1	30	303.426
		25#/15#	15	1	0.8	30	461.273
		25#/15#	20	1.2	0.5	27	518.945
		17#/24#	30	1.2	0.8	27	462.725
		17#/24#	50	2	0.5	20	461.595
		18#	80	2.5	0.5	17	427.274
		18#	100	3	0.5	15	446.583