

Dispensing Peristaltic Pump

3 years warranty

304
SS Housing

F6-12L

F6-6L

F6-3L



Features

- | Suitable for large flow rate, high efficiency, high precision filling.
- | Servo motor drive, accurate control, strong driving force.
- | 304 stainless steel drive housing can support the filling line.
- | New flow rate mode, can be used for continuous transferring.
- | Motor speed dispensing for viscous liquid.

Model Number

- | F6-3L/DZ25-3L
- | F6-6L/DZ25-6L
- | F6-12L/YZ35

Technical Specifications

Flow rate range	F6-3L: 2.11~3600 mL/min F6-6L: 3.0~6000 mL/min F6-12L: 0.0069~12 L/min	Control method	Touch screen and Mechanical keypad
Speed range	1-600 rpm	Keypad lifetime	300,000 times
Speed resolution	0.01 rpm	Start/stop, direction signal	Passive switch signal, such as foot pedal switch Active switch signal: 5V, 12V and 24V for option
Dispensing volume range	0.1-9999.99 mL	Output interface	Output motor working status (Open-Collector output)
Dispensing volume resolution	0.01 mL	Communication interface	RS232, RS485 support Modbus protocol (RTU mode)
Dispensing time	0.1-9999.99 s	Power supply	AC 220V±10% 50Hz/60Hz (Standard) AC 110V±10% 50Hz/60Hz (Optional)
Pause time	0.1-9999.99 s	Drive dimension	F6-3L: 223×152×231mm F6-6L: 283×192×274mm F6-12L: 302×222×331mm
Time resolution	0.01 s	Drive weight	F6-3L: 5.02kg; F6-6L: 7.85kg; F6-12L: 13.14kg;
Copy numbers	1-9999 times, setting '0' means unlimited	Power consumption	F6-3L: < 80W ; F6-6L: < 180W ; F6-12L: < 300W
Back suction angle	0-360°	Condition temperature	0-40°C
Outlet pressure	0.3 Mpa	Relative humidity	< 80%
Dispensing accuracy	<±0.5%	IP rate	IP31
Motor type	Servo motor		
Display	Industrial grade 4.3" color LCD display		

Product Composition and Flow Rate Range

Drive	Motor Type	Pump Head	Tubing Size	Speed Range(rpm)	Flow Rate(mL/min)
F6-3L	Servo Motor	DZ25-3L	15#, 24#, 35#, 36#	1-600	2.11~3600
F6-6L		DZ25-6L	15#, 24#, 35#, 36#		3.0~6000
F6-12L		YZ35	26#, 73#, 82#		6.9~12000



Intelligent, just for easier.

Experimental conditions: standard atmospheric pressure, room temperature at 20°C, the liquid is pure water, no pressure, no suction and lift.

Note: Actually, it is affected by many factors such as transmission medium, inlet and outlet pressure, hose material and error, working environment, etc. This data is for reference only.

LabF6/F6 Filling Volume Reference Parameter(Media is water)

Drive	Pump Head	Tubing	Filling Volume (mL)	Filling Time(s)	Filling Accuracy (±%)	Output(pcs/min)	Motor Speed(rpm)
LabF6/F6	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
F6-3L	DZ25-3L	15 [#]	16	1	0.5	30	443.540
		24 [#]	30	1.2	1.0	27	454.877
		35 [#]	150	4	0.6	12	447.940
		36 [#]	200	4	0.6	12	481.802
F6-6L	DZ25-6L	15 [#]	80	4	0.4	12	396.800
		24 [#]	150	4	0.4	12	440.700
		35 [#]	200	3.2	0.5	14	439.540
		36 [#]	300	3.5	0.5	13	473.208
F6-12L	YZ35	26 [#]	150	3	0.5	15	423.254
		73 [#]	300	3	0.5	15	457.805
		82 [#]	500	3	0.5	15	458.451

F6 Series Filling Accuracy Reference Parameter(Media is water)

Drive	Pump Head	Tubing	Filling Volume	Filling Time	Actual Filling Volume(mL)										Filling Accuracy				
					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
F6-3L	DZ25-3L	15 [#]	16mL	1s	15.97	15.97	16.00	16.06	15.97	15.92	15.96	16.02	16.01	15.97	-0.50%	0.50%			
					15.98	16.00	16.04	16.08	15.92	15.95	16.01	16.01	15.97	15.97					
		24 [#]	30mL	1.2s	29.98	30.12	30.20	30.29	30.06	29.94	30.11	30.18	30.02	29.99	-0.20%	1.00%			
					30.23	30.24	30.12	29.99	30.12	30.23	30.20	30.30	30.19	30.11					
35 [#]	150mL	4s	149.50	149.50	150.10	150.00	149.80	149.00	149.70	149.50	150.10	149.60	-0.15%	0.60%					
			149.00	149.90	149.70	149.10	149.50	150.00	150.10	150.10	149.60	149.40							
36 [#]	200mL	4s	199.70	200.30	200.10	200.30	200.00	200.00	200.70	200.80	200.70	200.40	-0.67%	0.07%					
			200.30	200.00	200.30	200.80	200.90	200.70	200.80	200.40	200.50	200.20							
F6-6L	DZ25-6L	15 [#]	80mL	4s	80.2	80.0	80.3	80.2	80.1	80.1	80.2	80.1	80.2	80.1	-0.125%	0.375%			
					80.1	79.9	80.1	79.9	80.0	80.1	19.9	80.1	80.1	80.0					
		24 [#]	150mL	4s	149.9	150.2	150.0	150.1	150.0	150.3	150.0	150.1	150.3	150.0	-0.067%	0.200%			
					149.9	150.1	150.0	150.0	150.1	150.0	150.1	149.9	150.2	150.2					
		35 [#]	200mL	3.5s	199.7	199.9	200.2	200.2	200.2	199.6	199.8	199.8	200.1	199.9	-0.400%	0.100%			
					199.5	199.2	199.5	199.9	199.5	199.3	199.8	199.3	199.6	199.9					
		36 [#]	300mL	3.5s	300.4	300.1	300.3	300.3	300.4	300.1	300.3	300.4	300.6	300.2	-0.167%	0.200%			
					300.2	300.0	300.1	300.2	300.2	299.9	299.5	300.5	300.5	300.6					
F6-12L	YZ35	26 [#]	150mL	3s	149.3	150.3	149.6	150.2	150.5	150.1	150.5	150.1	150.5	150.0	-0.47%	0.33%			
					150.4	149.9	150.4	150.0	150.3	149.8	150.3	149.9	150.4	150.0					
		73 [#]	300mL	3s	299.9	299.8	300.0	300.1	300.4	300.2	300.4	300.4	300.6	300.5	-0.07%	0.27%			
					300.8	300.6	300.5	300.5	300.5	300.6	300.7	300.5	300.6	300.6					
		82 [#]	500mL	3s	500.0	497.8	499.7	498.3	498.4	499.5	498.2	499.7	499.2	498.4	-0.44%	0.38%			
					499.5	498.3	501.5	501.9	500.0	501.8	501.1	500.5	501.6	499.6					

