



• 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 one.
- New flote rate mode, can be used for continuous transferring.
- Motor speed dispensing for viscous liquid.

• Model Number

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

• Product Composition and Flow Rate Range

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

HF-F6

- Technical Specifications

Flow rate range	HF-F6-3L: 2.11~3600 ml/min	Control method	Touch screen and Mechanical keypad
	HF-F6-6L: 3.0~6000 ml/min	Keypad lifetime	300,000 times
	HF-F6-12L: 0.0069~12 l/min	Start/stop, direction signal	Passive switch signal, such as foot pedal switch
Speed range	1-600 rpm		Active switch signal: 5V, 12V and 24V for option
Speed resolution	0.01 rpm	Output interface	Output motor working status (Open-Collector output)
Dispensing volume range	0.1-9999.99 ml	Communication interface	RS232, RS485 support Modbus protocol (RTU mode)
Dispensing volume resolution	0.01 ml	Power supply	AC 220V±10% 50Hz/60Hz (Standard)
Dispensing time	0.1-9999.99 s		AC 110V±10% 50Hz/60Hz (Optional)
Pause time	0.1-9999.99 s	Drive dimension	HF-F6-3L: 223×152×231 mm
Time resolution	0.01 s		HF-F6-6L: 283×192×274 mm
Copy numbers	1-9999 times, setting '0' means unlimited		HF-F6-12L: 302×222×331 mm
Back suction angle	0-360°	Drive weight	HF-F6-3L: 5.02kg; HF-F6-6L: 7.85kg; HF-F6-12L: 13.14kg
Outlet pressure	3 bar	Power consumption	HF-F6-3L: <80W; HF-F6-6L: <180W; HF-F6-A2L: <300W
Dispensing accuracy	<±0.5 %	Condition temperature	0-40°C
Motor type	Servo motor	Relative humidity	<80 %
Display	Industrial grade 4.3" color LCD display	IP rate	IP31

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.

- HF-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)
HF-LabF6/F6	HF-YZ1515x HF-YZ2515x	13#	0.1	0.5	5 ul	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		
HF-F6-3L	HF-Z25-3L	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
HF-F6-6L	HF-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
HF-F6-12L	HF-YZ35	36#	300	3.5	0.5	13	473.208
		26#	150	3	0.5	15	423.254
		73#	300	3	0.5	15	457.805
		82#	500	3	0.5	15	458.451

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- HF-F6 Series Filling Accuracy Reference Parameter (Media is water)

Drive	Pump Head	Tu-bing	Filling Volume	Filling Time	Actual Filling Volume (ml)										Filling Accuracy	
					1	2	3	4	5	6	7	8	9	10	Min	Max
HF-F6-3L	HF-DZ25-3L	15#	16 ml	1 s	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#	30 ml	1.2 s	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#	150 ml	4 s	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#	200 ml	4 s	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				
HF-F6-6L	HF-DZ25-6L	15#	80 ml	4 s	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#	150 ml	4 s	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#	200 ml	3.5 s	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#	300 ml	3.5 s	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				
HF-F6-12L	HF-YZ35	26#	150 ml	3 s	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#	300 ml	3 s	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#	500 ml	3 s	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	501.5	501.6	499.6		