INNOFLUID



INNOFLUID CO.,LTD.

IP RATINGS

IP[XX]

SOLIDS		WATER	
0	NO protection	NO protection	0
1	Solid foreign objects diameter >50mm	Vertical dripping water	1
2	Solid foreign objects diameter >12mm	Dripping water when tilted at 15°	2
3	Solid foreign objects diameter >2.5mm	Spraying water	3
4	Solid foreign objects diameter >1mm	Splashing water	4
5	Dust protected	Water jets	5
6	Dust-tight	Powerful water jets	6
		Short time immersion, up to 1 meter depth	7
		Continuous immersion, 1 meter or more depth	8

- **Intelligent control system**
  4.3 inch color LCD touch screen with buttons,easy operation, better visual effect Real-time animation displays the running status.Flow rate, setting parameters and system configuration are displayed in same screen.Intelligent calibration function.Multiple external control methods easily meet the remote control requirements.
- **It complies with GMP certification requirements**
  And the surface is easy to clean and disinfect.
- **The whole pump is IP66**
  Ensure long-term stable operation of the pump
- **Aluminum alloy body**
  with excellent heat dissipation performance
- **Open pump head cover to stop machine**
  Prevent misoperation and effectively protect user safety
- **Circuit isolation is achieved both inside and outside the external control interface**
  Reduce electromagnetic interference and accidental damage to ensure safe operation of the main control system and related equipment.

THE WHOLE PUMP IS IP66

SPECIALLY DESIGNED FOR THE INDUSTRIAL ENVIRONMENT.
THE WHOLE PUMP HAS 6 TYPES OF SEALING STRUCTURES.
ENSURE THE IP66 PROTECTION RATING.



I N D U S T R I A L P E R I S T A L T I C P U M P

Technical Specifications

- EMC Standard: IEC 61000-6-2/IEC 61000-6-4/IEC 61000-3-2/IEC 61000-3-3
- Housing material: Aluminum alloy
- Speed range:
  HPM100: 0.1-150rpm
  HPM300: 0.1-350rpm
  HPM600: 0.1-600rpm
- Speed adjustment resolution: 0.01 rpm
- Display: 4.3 inch-industrial grade- colorful LCD screen
- Control modes: Touch screen, mechanical keypad, external control signal control communication control
- Working modes: Transferring mode, dispensing mode (Fixed volume, Volume dispensing, Speed dispensing)
- Transferring mode: Continuous operation at set flow rate and speed
- Dispensing mode:
  Dispensing: Set volume, time, repeat numbers, pause time
  Dispensing: Set volume, flow rate, repeat numbers, pause time
  Speed dispensing: Set speed (rpm), time, repeat numbers, pause time
- Dispensing volume range: 0.1ml – 9999L
- Dispensing time range: 0.1s – 9999h
- Pause time range: 0.5s – 9999h
- Repeat numbers: 1-9999 times, 0 means unlimited times
- Calibration: Automatic calibration after inputting actual running liquid volume
- Back suction angle: 0-360°
- Communication interface: RS485
- Communication protocol: Modbus protocol (RTU mode)
- External control speed signal: 0-5V, 0-10V, 4-20mA (for option)
- External control signal input: Active switch signal (5-24V) controls start/stop direction; Passive switch signal controls start/stop
- Signal output: Open collector output operation status;4-20mA output
- Open cover to stop pump function: Prevent misoperation and effectively protect user safety
- Three levels of permissions: Reasonable configuration of operation permissions
- Drive dimension: 274mm*160mm*221mm (L*W*H)
- Power supply: AC110-220V±10%,50/60Hz
- Rated power: 110W
- Working environment: 0-40℃
- Drive weight: 6.2kg
- Relative humidity: <100%
- Protection level: IP66

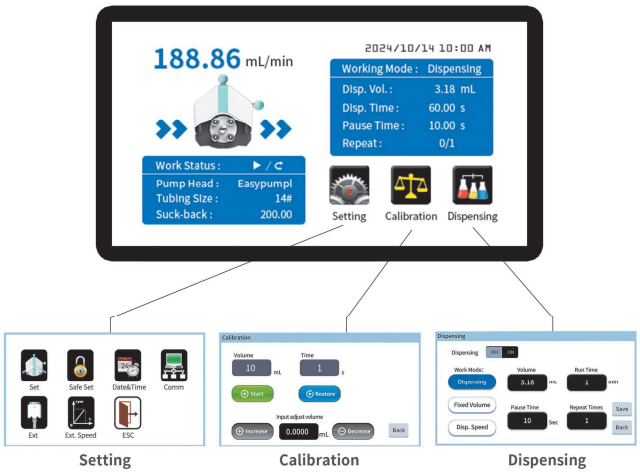
HPM Series Industrial Peristaltic Pump





IP66 Protection

Control Interface



- Three levels of user accesse function.
- Open pump head stop running function.
- Screen lock and password protection function.
- Touch screen control and mechnical buttons control.
- Fixed volume dispensing: Set the dispensing volume,flow rate,repeat number and pause time.
- Fixed time and volume dispensing: Set the dispensing volume, dispensing time, repeat number and pause time.
- Fixed time and speed dispensing: Set the motor speed (rpm), dispensing time, repeat number and pause time.
- Lock screen function: Prevent accidental touches.
- Password protection function: Prevent misoperation.

INDUSTRIAL PERISTALTIC PUMP

IP66/IP67/IP68 Protection

IP66/IP67/IP68 protection rating, ensure long-term stable operation.

(Immersion test)

- **Touch screen operation panel**
  Sealed without dead end
- **Stainless steel bearing**
  The pump head can work normally even immersed in water.
- **Motor shaft**
  Equipped with high-pressure sealing ring, handles deep water pressure easily.
- **Pump drive**
  Fully sealed shell structure ensures IP66/IP67/IP68 protection rating.



THE WHOLE PUMP IS IP66/IP67/IP68

Specially designed for the industrial environment.
The whole pump has 6 types of sealing structures, ensure the IP66/IP67/IP68 protection rating.

Intelligent control system
- 4.3-inch color LCD touch screen with buttons,easy operation, better visual effect
- Real-time animation displays the running status.
- Flow rate, setting parameters and system configuration are displayed in same screen.
- Intelligent calibration function.
- Multiple external control methods easily meet the remote control requirements.

- **Cast body design**
  Excellent heat dissipation performance.
  Under full load conditions:
  HP600 (withYZ35 pump head)
  motor temperature only rises 12℃.

- **Servo motor**
  High precision, high torque, stable operation, low noise.



- **Passed EMC test**
  Excellent anti-electromagnetic interference.

- **Automatic pressure control device**
  Control the internal air pressure during the pump working, ensure the balance of internal and external pressure.

- **Inside and outside of the external control interface are both circuit isolation.**
  Reduce electromagnetic interference and accidental damage to ensure the safe operation of the main control system and the associated equipment.

I N D U S T R I A L P E R I S T A L T I C P U M P

HP Series Industrial Peristaltic Pump



5 YEARS
5years warranty

ISO9001 Certification

IP66/IP67/IP68

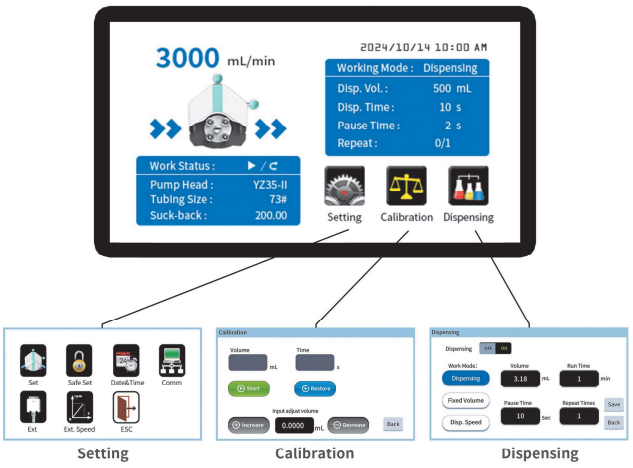
Technical Specifications

- **EMC Standard:** IEC 61000-6-2/IEC 61000-6-4/IEC 61000-3-2/IEC 61000-3-3
- **Housing material:** Aluminum Alloy
- **Speed range:** HP600 series: 0.1-600rpm
  HP350 series: 0.1-350rpm
  HP300 series: 0.1-300rpm
- **Speed resolution:** 0.01rpm
- **Display:** 4.3 inch -Industrial grade – True color LCD screen
- **Control:** Touch screen, mechanical buttons, external signal control, communication control.
- **Working mode:** Flow rate mode, Dispensing mode(Fixed volume dispensing, Fixed time&volume dispensing, Fixed time&speed dispensing).
- **Flow rate mode:** Continuous transferring according to the set flow rate or motor speed.
- **Dispensing mode:**
  Fixed time and volume dispensing: Set the dispensing volume, dispensing time, repeat number and pause time.
  Fixed volume dispensing: Set the dispensing volume, flow rate, repeat number and pause time.
  Fixed time and speed dispensing: Set the motor speed (rpm), dispensing time, repeat number and pause time.
- **Dispensing volume:** 0.1mL-9999L
- **Dispensing time:** 0.1sec-9999hours
- **Pause time:** 0.5sec-9999hours
- **Repeat number:** 1-9999 times, 0 represents unlimited
- **Calibration function:** Input actual volume and calibrate automatically
- **Back suction angle:** 0-360° | **Communication:** RS485, RS232
- **Communication protocol:** Modbus protocol(RTU mode)
- **External control speed signal:** 0-5V, 0-10V, 4-20mA (For option)
- **External control signal input:** Active switch signal (5-24V) control start/stop, direction and full speed; Passive switch signal control start/stop.
- **Signal output:** Open collector output working status.
- **Lock screen function:** Prevent accidental touches.
- **Password protection function:** Prevent misoperation.
- **Drive dimension (LxWxH):** 428mm*285mm*335mm
- **Power supply:** AC 220V±10% 50Hz/60Hz
- **Rated power:** 300W | **Relative humidity:** <100%
- **Condition temperature:** 0-40℃ | **IP rate:** IP66/IP67/IP68
- **Drive weight:** 21.5kg



IP66/IP67/IP68 ProtectionIP

Control Interface



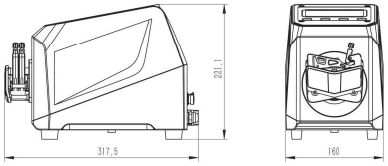
- Three levels of user accesse function.
- Open pump head stop running function.
- Screen lock and password protection function.
- Touch screen control and mechnical buttons control.
- Fixed volume dispensing: Set the dispensing volume,flow rate,repeat number and pause time.
- Fixed time and volume dispensing: Set the dispensing volume, dispensing time, repeat number and pause time.
- Fixed time and speed dispensing: Set the motor speed (rpm), dispensing time, repeat number and pause time.
- Lock screen function: Prevent accidental touches.
- Password protection function: Prevent misoperation.

Pump Head – AMC Series

AMC



Dimension Drawing(Unit:mm)

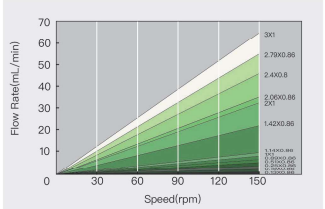


Flow Rate

Drive	Tubing	Speed	Flow rate of pump head with 10 rollers (mL/min)	Flow rate of pump head with 6 rollers (mL/min)	Tubing maximum pressure (Mpa)	
					Continuous	Intermittent
HPM100	1×1	0.1~150rpm	0.0050~7.55	0.0062~9.36	0.1	0.1
	2×1		0.0183~27.52	0.0220~33.06		
	2.4×0.8		0.0254~38.13	0.0319~47.81		
	3×1		0.0323~48.38	0.0434~65.17		
	0.13×0.86		0.0002~0.29	0.0002~0.31		
	0.19×0.86		0.0003~0.44	0.0003~0.46		
	0.25×0.86		0.0005~0.76	0.0005~0.80		
	0.51×0.86		0.0013~2.00	0.0014~2.05		
	0.89×0.86		0.0030~4.47	0.0031~4.65		
	1.14×0.86		0.0061~9.16	0.0065~9.74		
	1.42×0.86		0.0125~18.75	0.0142~21.28		
	2.06×0.86		0.0197~29.60	0.0234~35.17		
	2.79×0.86		0.0286~42.86	0.0372~55.77		

Experimental conditions:Standard atmospheric pressure, room temperature at 20℃,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.

Flow Rate(0.1–150rpm)



AMC obtained EU Appearance patent.



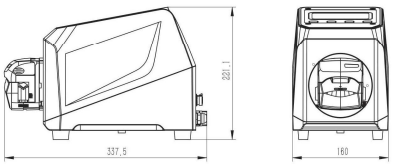
Appearance patent No.: 008005789-0001

Pump Head – KD Series

KD15/25



Dimension Drawing(Unit:mm)

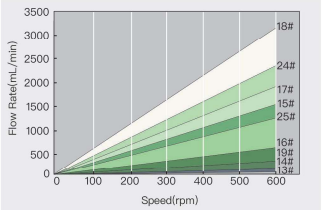


Flow Rate

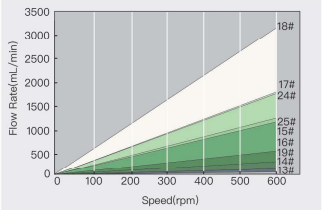
Drive	Pump Head	Tubing		3 Rollers		4 Rollers		Speed (rpm)	Weight (kg)
		Size	IDxWall Thickness	(mL/r)	(mL/min)	(mL/r)	(mL/min)		
HPM100 HPM300 HPM600	KD15	13#	0.8x1.6	0.0834	0.0083–50.3	0.0790	0.0079–47.37	0.1–600	0.37
		14#	1.6x1.6	0.2807	0.0281–168.4	0.2673	0.0267–160.37		
		19#	2.4x1.6	0.6133	0.0613–367.97	0.5436	0.0544–326.13		
		16#	3.2x1.6	1.0058	0.1006–603.5	0.9425	0.0942–565.47		
		25#	4.8x1.6	2.2431	0.2243–1345.83	2.1033	0.2103–1262		
	KD25	17#	6.4x1.6	3.2968	0.3297–1978.1	2.9149	0.2915–1748.93		
		18#	7.9x1.6	5.0466	0.5047–3027.97	4.4833	0.4483–2690		
		15#	4.8x2.4	2.5127	0.2513–1507.6	1.9793	0.1979–1187.55		
		24#	6.4x2.4	3.9116	0.3912–2346.95	2.9092	0.2909–1745.5		

Experimental conditions:Standard atmospheric pressure, room temperature at 20℃,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.

3 Rollers Flow Rate(0.1–600rpm)



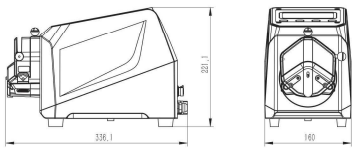
4 Rollers Flow Rate(0.1–600rpm)



EasyPump



Dimension Drawing(Unit:mm)



Easypump obtained China Invention patent and Appearance patent.



Invention Patent No.: ZL 201910933057.X
Appearance patent No.: ZL 201930723432.9

Easypump obtained U.S. Invention patent and Appearance patent.



Invention Patent No.: US 11,852,136 B2
Appearance patent No.: US D939,692 S

Easypump obtained EU Invention patent and Appearance patent.



Invention patent No.: EP3967879
Appearance patent No.: 008005789-0002

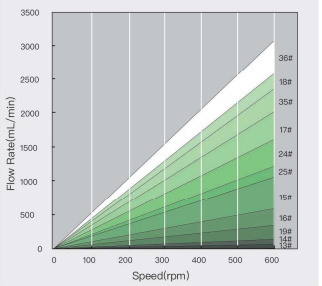
Flow Rate

Drive	Pump Head	Housing Material	Tubing		mL/r	Speed (rpm)	Flow Rate (mL/min)	Weight (kg)
			Size	IDxWall Thickness				
HPM100 HPM300 HPM600	Single channel EasyPumpI/III	Engineering plastic / PPS	13#	0.8x1.6	0.053	0.1-600	0.0053-32	0.6
			14#	1.6x1.6	0.27		0.027-162	
			19#	2.4x1.6	0.55		0.055-330	
			16#	3.2x1.6	0.933		0.093-560	
			25#	4.8x1.6	1.967		0.197-1180	
	Single channel EasyPumpII/IV		17#	6.4x1.6	3.333		0.333-2000	
			18#	7.9x1.6	4.3		0.430-2580	
			15#	4.8x2.4	1.8		0.180-1080	
			24#	6.4x2.4	2.733		0.273-1640	
			35#	7.9x2.4	3.833		0.383-2300	
			36#	9.6x2.4	5.167		0.517-3100	
	Dual channel EasyPumpV/VI		13#	0.8x1.6	0.053		0.0053-32	
			14#	1.6x1.6	0.27		0.027-162	
			19#	2.4x1.6	0.55		0.055-330	
			16#	3.2x1.6	0.933		0.093-560	
			25#	4.8x1.6	1.967		0.197-1180	

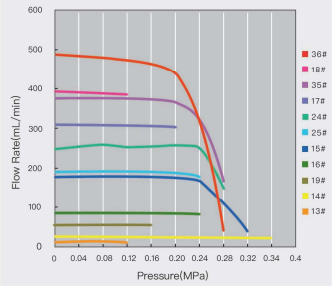
Experimental conditions:Standard atmospheric pressure, room temperature at 20℃,the liquid is pure water, no pressure, no suction and lift.
Note: Actually, it is affected by many factors such as transmission medium, inlet and outlet pressure, hose material and error, working environment, etc. This data is for reference only.

Pump Head – EasyPump Series

Flow Rate (0.1-600rpm)



Pressure/Flow Rate Curve(100rpm)



Filling Volume Reference Parameter

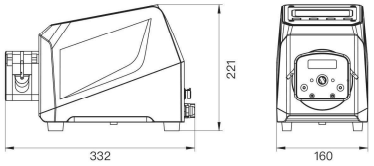
Drive	Pump Head	Tubing	Filling Volume(mL)	Filling Time(s)	Accuracy(±%)	Output (pcs/min)	Motor Speed(rpm)
HPM600	EasyPump	13#	0.4	1.2	0.8	27	377.36
		13#	1	2.5	0.5	17	452.83
		14#	2	1	0.5	30	444.44
		19#	5	1.2	0.5	27	454.55
		16#	7	1	0.5	30	450.16
		25#	10	0.8	0.8	33	381.29
		25#	15	1	0.5	30	457.55
		25#	20	1.5	0.5	24	406.71
		17#	30	1.2	0.5	27	450.05
		18#	50	1.5	0.5	24	465.12
		15#	15	1.2	0.5	27	416.67
		24#	20	1.2	0.5	27	365.90
		35#	30	1.2	0.5	27	391.34
		36#	50	1.5	0.8	24	387.07

Experimental conditions:standard atmospheric pressure, room temperature at 20℃,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.

DZ25-3L



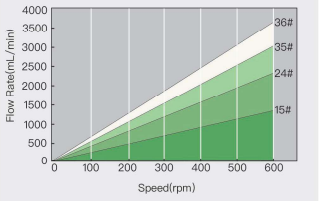
Dimension Drawing(Unit:mm)



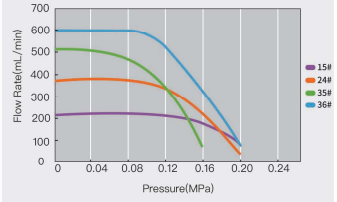
Flow Rate

Drive	Pump Head	Housing Material	Weight (kg)	Tube Clamp Material	Tubing		mL/r	Speed (rpm)	Flow Rate (mL/min)
					Size	IDxWall Thickness			
I IPM600	DZ25-3L	PPS	0.5	Polyamide	15#	4.8x2.4	2.11	0.1-600	0.211-1264
					24#	6.4x2.4	3.85		0.385-2310
		Aluminum alloy	1.16		35#	7.9x2.4	5.08		0.508-3050
					36#	9.6x2.4	6		0.6-3600

Flow Rate(0.1-600rpm)



Pressure/Flow Rate Curve(100rpm)



Filling Volume Reference Parameter

Drive	Pump Head	Tubing	Filling Volume(mL)	Filling Time(s)	Accuracy(±%)	Output (pcs/min)	Motor Speed(rpm)
HPM600	DZ25-3L	15#	20	1.2	0.5	27	473.9
		24#	40	1.5	0.5	24	415.6
		35#	50	1.5	0.5	24	393.7
		36#	70	2	0.5	20	350.0

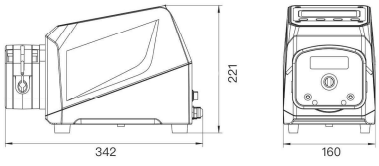
Experimental conditions:Standard atmospheric pressure, room temperature at 20℃,the liquid is pure water, no pressure, no suction and lift.
Note: Actually, it is affected by many factors such as transmission medium, inlet and outlet pressure, hose material and error, working environment, etc. This data is for reference only.

Pump Head – DZ Series

DZ25-6L



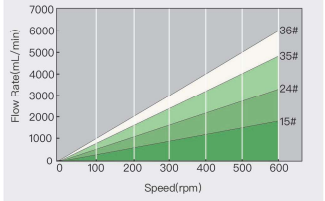
Dimension Drawing(Unit:mm)



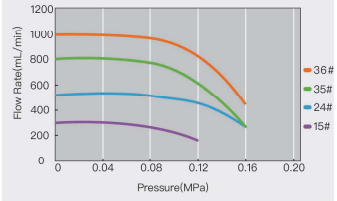
Flow Rate

Drive	Pump Head	Housing Material	Weight (kg)	Tube Clamp Material	Tubing		mL/r	Speed (rpm)	Flow Rate (mL/min)
					Size	IDxWall Thickness			
HPM600	DZ25-6L	PPS	0.85	Polyamide	15#	4.8x2.4	3	0.1-600	0.3-1800
					24#	6.4x2.4	5.5		0.55-3300
		Aluminum alloy	1.87		35#	7.9x2.4	8		0.8-4800
					36#	9.6x2.4	10		1-6000

Flow Rate(0.1-600rpm)



Pressure/Flow Rate Curve(100rpm)



Filling Volume Reference Parameter

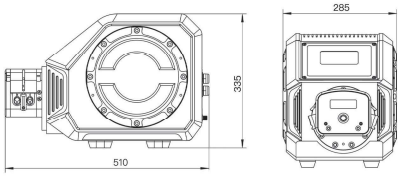
Drive	Pump Head	Tubing	Filling Volume(mL)	Filling Time(s)	Accuracy(±%)	Output (pcs/min)	Motor Speed(rpm)
HPM600	DZ25-6L	15#	30	1.2	0.5	27	500.0
		24#	50	1.2	0.5	27	454.6
		35#	70	1.2	0.5	27	437.5
		36#	100	1.5	0.5	24	400.0

Experimental conditions:Standard atmospheric pressure, room temperature at 20℃,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.

DY15

Dimension Drawing(Unit:mm)

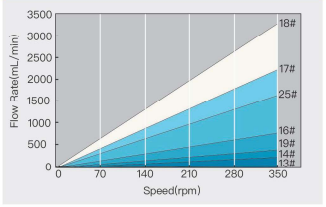




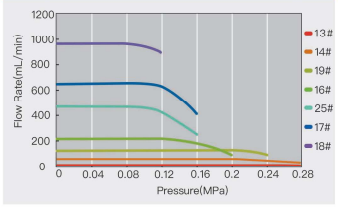
Flow Rate

Drive	Pump Head	Housing Material	Tube Clamp Material	Tubing		mL/r	Speed (rpm)	Flow Rate (mL/min)	Weight (kg)
				Size	IDxWall Thickness				
HP350	DY15	Aluminum alloy	Polyamide	13#	0.8x1.6(mm)	0.14	0.1–350	0.01–48	3.2
				14#	1.6x1.6(mm)	0.64		0.06–223	
				19#	2.4x1.6(mm)	1.28		0.13–448	
				16#	3.2x1.6(mm)	2.07		0.2–723	
				25#	4.8x1.6(mm)	4.65		0.47–1626	
				17#	6.4x1.6(mm)	6.37		0.64–2230	
				18#	7.9x1.6(mm)	9.53		0.95–3337	

Flow Rate(0.1–350rpm)



Pump Head Pressure/Flow Rate Curve(100rpm)



Filling Volume Reference Parameter

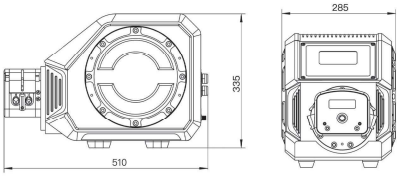
Drive	Pump Head	Tubing	Filling Volume(mL)	Filling Time(s)	Accuracy(±%)	Output (pcs/min)	Motor Speed(rpm)
HP350	DY15	14#	0.5	0.5	1	30	94.2
		14#	1	0.6	0.8	38	157.0
		14#	3	1	0.5	30	282.6
		19#	5	1	0.8	30	234.4
		16#	15	1.5	0.5	24	290.4
		25#	20	1	0.5	30	250.3
		17#	30	1	0.5	30	282.5
		18#	100	2.5	0.5	17	251.7

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.

DY25

Dimension Drawing(Unit:mm)

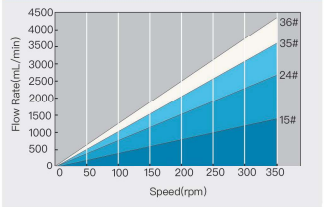




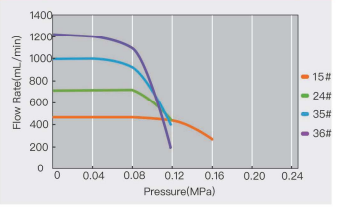
Flow Rate

Drive	Pump Head	Housing Material	Tube Clamp Material	Tubing		mL/r	Speed (rpm)	Flow Rate (mL/min)	Weight (kg)
				Size	IDxWall Thickness				
HP350	DY25	Aluminum alloy	Polyamide	15#	4.8x2.4(mm)	4.23	0.1–350	0.42–1480	3.2
				24#	6.4x2.4(mm)	7.63		0.76–2670	
				35#	7.9x2.4(mm)	10.29		1.03–3600	
				36#	9.6x2.4(mm)	12.40		1.24–4340	

Flow Rate(0.1–350rpm)



Pump Head Pressure/Flow Rate Curve(100rpm)



Filling Volume Reference Parameter

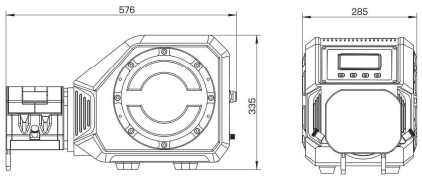
Drive	Pump Head	Tubing	Filling Volume(mL)	Filling Time(s)	Accuracy(±%)	Output (pcs/min)	Motor Speed(rpm)
HP350	DY25	15#	10	0.8	0.8	33	177.3
		24#	30	1	0.8	30	235.9
		35#	70	1.5	0.5	24	272.2
		36#	100	2	0.5	20	241.9

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.

DY25-II/DY35

Dimension Drawing(Unit:mm)

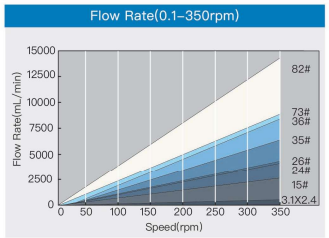




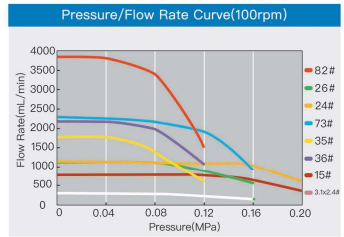
Flow Rate

Drive	Pump Head	Housing Material	Tubing		(mL/r)	Speed (rpm)	Flow Rate (mL/min)	Weight (kg)
			Size	IDxWall Thickness(mm)				
HP350	DY25-II	Aluminum alloy	3.1X2.4	3.1x2.4	3.46	0.1–350	0.35–1211	9.45
			15#	4.8x2.4	7.52		0.75–2632	
			24#	6.4x2.4	11.87		1.19–4154.5	
			35#	7.9x2.4	17.64		1.76–6174	
			36#	9.6x2.4	23.65		2.37–8278	
	DY35		26#	6.4x3.3	12.78		1.28–4473	
			73#	9.6x3.3	23.96		2.40–8686	
			82#	12.7x3.3	39.3		3.93–13755	

Flow Rate(0.1–350rpm)



Pressure/Flow Rate Curve(100rpm)



Filling Volume Reference Parameter

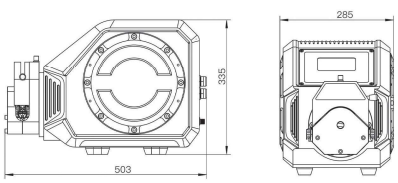
Drive	Pump Head	Tubing	Filling Volume(mL)	Filling Time(s)	Accuracy(±%)	Output (pcs/min)	Motor Speed (rpm)
HP350	DY25-II	3.1X2.4	20	2	0.5	20	173.4
		15#	80	3	0.5	15	212.8
		24#	150	4	0.5	12	189.6
		35#	200	3.2	0.8	14	212.6
		36#	300	3.5	1	13	217.4
	DY35	26#	150	3	0.8	15	234.7
		73#	300	3	1	15	250.4
		82#	500	3	1	15	254.5

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.

YZ35

Dimension Drawing(Unit:mm)

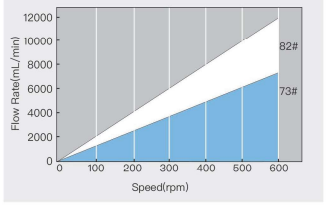




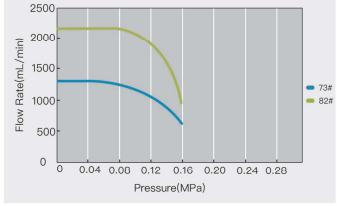
Flow Rate

Drive	Pump Head	Housing Material	Tubing		mL/r	Speed (rpm)	Flow Rate (mL/min)	Weight (kg)
			Size	IDxWall Thickness				
HP600	YZ35-II	Cast aluminum	73#	9.6x3.3(mm)	12.3	0.1–600	1.23–7400	2.8
			82#	12.7x3.3(mm)	20		2–12000	

Flow Rate(0.1–600rpm)



Pressure/Flow Rate Curve(100rpm)



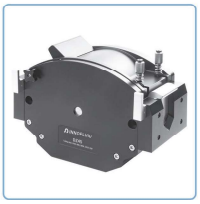
Filling Volume Reference Parameter

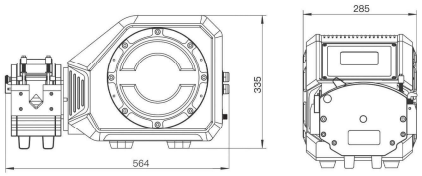
Drive	Pump Head	Tubing	Filling Volume(mL)	Filling Time(s)	Accuracy(±%)	Output (pcs/min)	Motor Speed(rpm)
HP600	YZ35-II	73#	100	1.2	0.5	27	406.5
		73#	150	2	0.5	20	365.9
		82#	200	1.5	0.5	24	400.0
	2*YZ35-II	73#	100	1.2	0.5	27	203.3
		73#	200	1.5	0.5	24	325.2
		82#	500	2	0.5	20	375.0

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.

DZ45

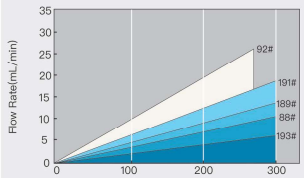
Dimension Drawing(Unit:mm)





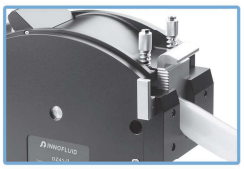
Flow Rate								
Drive	Pump Head	Housing Material	Tube Clamp Material	Tubing		L/r	Speed (rpm)	Flow Rate (L/min)	Weight (kg)
				Size	IDxWall Thickness				
HP300	DZ45–I DZ45–II	Aluminum alloy	Aluminum alloy	193#	9.6x4.8(mm)	0.019	0.1–300	0.0019–5.66	10
				88#	12.7x4.8(mm)	0.035		0.0035–10.5	
				189#	15.9x4.8(mm)	0.047		0.0047–13.98	
				191#	19.4x4.8(mm)	0.063		0.0063–18.78	
				92#	25.4x4.8(mm)	0.104	0.1–270	0.0104–28.15	

Flow Rate(0.1–300rpm)





DZ45–I



DZ45–II

Peristaltic Pump Tubing

Silicone Tubing

Platinum-cured silicone tubing: Soft, slightly transparent, smooth inner wall; low protein adhesion, low protein penetration, temperature range: -51~238°C.

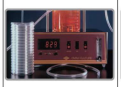
Micro flow rate tubing											
Tubing Size		0.13×0.86	0.5×0.86	0.86×0.86	1.52×0.86	2.06×0.86	2.79×0.86	1×1	2×1	3×1	2.4×0.8
Tubing cross sections(1:1)		•	•	•	•	•	•	•	•	•	•
Wall thickness (mm)		0.86						1.0			0.8
Inside diameter (mm)		0.13	0.5	0.86	1.52	2.06	2.79	1.0	2.0	3.0	2.4
Maximum pressure (Mpa)	Continuous	0.1									
	Interm-ittent	0.1									

Basic flow rate tubing											
Tubing Size		13#	14#	19#	16#	25#	17#	18#	15#	24#	35#	36#
Tubing cross sections(1:1)		•	•	•	•	•	•	•	•	•	•	•
Wall thickness (mm)		1.6							2.4			
Inside diameter (mm)		0.8	1.6	2.4	3.2	4.8	6.4	7.9	4.8	6.4	7.9	9.6
Maximum pressure (Mpa)	Continuous	0.17				0.14	0.1	0.07	0.17		0.14	
	Interm-ittent	0.27				0.24	0.14	0.1	0.27		0.24	

Industrial tubing								
Tubing Size		26#	73#	82#	86#	90#	88#	92#
Tubing cross sections(1:1)								
Wall thickness (mm)		3.3			6.4		4.8	
Inside diameter (mm)		6.4	9.6	12.7	9.5	19	12.7	25.4
Maximum pressure (Mpa)	Continuous	0.2			0.25			
	Interm-ittent	0.27			0.3			

SAINT-GOBAIN Tubing : Tygon, PharMed BPT, Norprene etc

	A Tygon3350	B Tygon E-3603	C Norprene Chemical	D PharMed	E Norprene A-60-F
					
Formulation	Tygon3350	Tygon R-3603	Norprene Chemical	PharMed	Norprene A-60-F
Application	Pharmaceutical, cosmetic, medical and autoanalysis application.	General laboratory, food & beverage, biopharmaceutical, analytical instruments.	Elcellent for chemical processing and general industrial applications. Food and beverage applications where extractables are a concern.	Cell and tissue culture work and pharmaceutical uses. Also good for light-sensitive samples.	Ideal for the food, dairy and beverage.
Advantages	Ultra-smooth; minimizes bacterial growth. Good for mild to medium concentration bases, salts and alcohols; odorless, tasteless, and nontoxic. Transparent.	Inexpensive tubing for general lab application. Nonaging nonoxidizing Clear for easy flow monitoring. Handles virtually all inorganic chemicals. Low gas permeability. Smooth bore; good for viscous fluids. High dielectric constant.	Norprene thermoplastic elastomer outer jacket with chemically inert Tygon® 2075 inner bore for excellent chemical resistance. Plasticizer-free to guard against extractables. Long flex life. Opaque beige.	Great for tissue and cell work-nontoxic and nonhemolytic; long service life minimizes risk of fluidexposure; reduces tubing costs and pump downtime. Opaque to UV and visible light to protect light-sensitive fluids. Heat sealable, bondable, and formable. Extremely low gas permeability.	Heat, ozone, and UV light resistant. Nonaging; nonoxidizing; superior acid and alkali resistance. Opaque beige.
Application Suitability	———	ACIDS GOOD ALKALIES GOOD ORGANIC SOLVENTS NO PRESSURE GOOD VACUUM GOOD VISCOUS FLUIDS EXCELLENT STERILE FLUIDS GOOD	———	ACIDS GOOD ALKALIES GOOD ORGANIC SOLVENTS NO PRESSURE GOOD VACUUM EXCELLENT VISCOUS FLUIDS GOOD STERILE FLUIDS EXCELLENT	———
Physical characteristics	———	Thermoplastic. PVC-based material with plasticizer. Firm (stiff) material. Transparent, clear.	———	Thermoplastic elastomer. Polypropylene-based material with USP mineral oil. Excellent tensile strength. Firm(stiff) material. Opaque, beige.	———
Temp.range	–75 to 450° F (–60–232° C)	–58 to 165° F (–50–74° C)	–76 to 165° F (–60–74° C)	–60 to 270° F (–59–135° C)	–60 to 275° F (–51–135° C)
Meets classifications	FDA 21 CFR 177.2600 USP Class VI EP 3.1.9. Exceeds 3A standards Manufactured according to GMP.	FDA 21 CFR 175.300	None.	None.	FDA 21 CFR 177.2600 NSF listed (Standard 51) Manufactured according to GMP.
Cleaning/ Sterilization	Ethylene oxide gamma irradiation, or autoclave for 30 min, 15psi (1 bar).	Unaffected by commercial sanitizers (with recommended procedures) Sterilize with ethylene oxide (ETO) or autoclave. To autoclave: Coil loosely in nonlinting cloth or paper, autoclave at 121°C (250°F). 1KG/cm² (15psi) for 30 minutes (tubing will appear milky); air dry at max 66°C (150°F) for 2 to 2 ½ hours until clear.	Sterilize with ethylene-oxide(ETO), autoclave or gamma irradiation up to 2.5Mrad. Repeated autoclaving will not affect overall life.	Autoclave, ethylene oxide, or gamma irradiation.	Autoclave.

	F Norprene A-60-G	G Tygon F-4040-A	H Tygon LFL	I TYGON 2475	K Viton
					
Formulation	Norprene A-60-G	Tygon F-4040-A	Tygon LFL	TYGON 2475	Viton
Application	For applications requiring excellent chemical, heat, ozone, and ultraviolet (UV) light resistance.	Fuels and industrial lubricants-gasoline, kerosene, heating oils, cutting compounds, and glycol based coolants. Resists most hydrocarbons.	General laboratory use, provides longer life with peristaltic tubing pumps.	Sensitive fluid transfer applications requiring high purity.	Acid and solvent transfer, high-temperature.
Advantages	Best choice for vacuum/ pressure applications. Offers longest life with good flow consistency. Heat and ambient ozone resistant. Good resistance to acids/alkalies. Black color hides dirt and dust. Heat sealable, nonaging, and nonoxidizing. High dielectric constant.	Resists embrittlement and swelling, ozone-and UV-resistant, with low-extractability. Translucent yellow.	Longest life of all Tygon® peristaltic tubing (1000hrs). Nonaging, nonoxidizing. lear for easy flow monitoring. Broad chemical resistance; low gas permeability. Smooth bore. Good for viscous fluids. High dielectric constant.	Plasticizer free, smooth inner surface (inhibits particulate buildup and bacterial growth), safely disposed of through incineration and nontoxic. Transparent.	The most chemical resistant tubing. Registand to corrosives, solvents, and oils at elevated temperatures. Low gas permeability.
Application Suitability	ACIDS GOOD ALKALIES GOOD ORGANIC SOLVENTS NO PRESSURE EXCELLENT VACUUM EXCELLENT VISCOUS FLUIDS EXCELLENT STERILE FLUIDS NO	———	ACIDS GOOD ALKALIES GOOD ORGANIC SOLVENTS NO PRESSURE GOOD VACUUM GOOD VISCOUS FLUIDS EXCELLENT STERILE FLUIDS POOR	———	ACIDS EXCELLENT ALKALIES EXCELLENT ORGANIC SOLVENTS EXCELLENT PRESSURE GOOD VACUUM GOOD VISCOUS FLUIDS GOOD STERILE FLUIDS FAIR
Physical characteristics	Thermoplastic elastomer. Polypropylene-based material with USP mineral oil. Excellent tensile strength. Firm (stiff) material. Opaque, black. Manufactured according to GMP.	———	Thermoplastic. PVC-based material with plasticizer. Firm (stiff) material. Transparent, clear.	———	Thermal set rubber. Viton B (67% fluorine) Firm (stiff) material Opaque, black. Manufactured according to GMP.
Temp.range	–60 to 270° F (–59–135° C)	–35 to 165° F (–37–74° C)	–58 to 165° F (–50–74° C)	–94 to 125° F (–70–52° C)	–25 to 400° F (–32–205° C)
Meets classifications	None.	Meets NSF-51 and 3A sanitary standards.	USP Class VI, FDA 21 CFR 175.300	FDA 21 CFR 177.1520, USP 23 Class VI, Manufactured according to GMP.	None.
Cleaning/ Sterilization	Sterilize by autoclave only.	Not recommended.	Sterilize by ETO/autoclave. Coil loosely in nonlinting cloth or paper; autoclave at 250°F(121°C), 15 psi (1kg/cm²), 30 minutes (tubing will appear milky); air dry at max 150°F (66°C) for 2 to 2 ½ hrs until clear.	Ethylene oxide or gamma irradiation.	Sterilization is not recommended.

Peristaltic Pump Accessories

A Filling Nozzle

Name	Material	Picture
Reducer anti-splash filling nozzle	SS316	
Flat filling nozzle	SS304/316	

B One Way Checkvalve



Avoid liquid drop off after filling and transferring.

C Filling Countersunk



Used for the input of tube, preventing the tube floating or absorbing the wall of container.

Name	Material	Tube
Counter sunk	304/316 stainless steel	13', 14', 19', 16', 25', 17',18', 15', 24', 35', 36', 26', 73', 82'

D Fluid Pulse Damper





Special design for peristaltic pump, effectively suppress the peristaltic pump pulsation and improve the flow rate accuracy. The pulsation suppression rate can reach more than 95%.

E Handling Dispenser



Filling nozzle and tubing cap			
Filling nozzle size	13"	14"	19"
Inner diameter	3mm	3.5mm	4.5mm
Picture			
Filling nozzle size	16"	15"/25"	17"/24"
Inner diameter	5mm	7mm	9mm
Picture			
Tubing size	17"	18"	Plum blossom cap
Inner diameter	9.6mm	11.1mm	
Picture			

Based on ergonomics design, elegant appearance, grip feeling comfortable, easy operation. Connect to peristaltic pump external control interface, with start/stop and full speed control, can realize transferring and dispensing function. Power supply and working indicator, show the dispenser working status. With hanging hole, can be hang up when do not use.

F Foot Pedal Switch



water proof



Control the pump start/stop with foot pedal switch.

G Tube Connector



B Straight tube connector | R "Y" tube connector | C Tee tube connector | A Reducer tube connector | S "L" tube connector | F Flexible/Hard tube connector

H PH Controller



Work with peristaltic pump, can control the liquid PH value, add acid or alkali automatically.
Function:
1. Liquid: Acid-Base Solutions
2. PH value : 0-14PH
3. Set up target PH value
4. Add acid or alkali liquid automaticall
5. Control: RS485 , 4-20mA
6. Power supply: DC24V (AC220V for option)
7. Suitable temperature: 0-60℃

I 5V Sensor



When applied in the dispensing line, it can detect weather there is filling bottle in the production line. When the bottle approach the sensor side, the switch action will be made without any mechanical contact or pressure, thereby providing filling control order to the pump. In the same way, when no filling bottle is detected, the stop filling control order is provided to the pump.

J Benchtop Tubing Cutter



Stainless steel blade, makes right-angle cuts in several sizes of plastic tubing.

K Support Stand





The multiple filling stand is suitable for more than 2 channels filling. It can hold 2-8 filling nozzles. We can customize the suiatble one according to your request.

Handling Dispenser Patent No: ZL201830096683.4; ZL201820353029.1

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