SF100-HT

High Torque Dispensing Peristaltic Pump

Typical Application

Bacterial/Cell Culture, Microfluidic Transfer,
Reagent and Medium Dispensing



Technical Parameter

Parameter	SF100HT
Flow range	0.00011 ~ 1750mL/min
Speed range	0.1~150 rpm
Speed resolution	0.1rpm
Speed accuracy	< ±0.2%
Dispensing volume	0.001μL~9999L (It is recommended to have a minimum fill of 50μL.)
Dispensing time	1~999，“0”Infinite cycle
Dispensing interval time	0.1~999.9 S/Min/H, time unit adjustable
Work mode	Flow mode, volume dispensing mode, time dispensing mode, copy dispensing mode
External control signal input	External control input level 5V, 12V (standard), 24V (optional) External control analog 0-5V(standard), 0-10V, 4-20mA (optional)
External control signal output	Start/Stop, Forward/Reverse
Communication interface	RS485 communication, Support MODBUS protocol
Power supply	AC100~240V，50Hz/60sHz
Power consumption	<40W
Working environment	Temperature 0~40℃, relative humidity < 80%
IP grade	IP31
Dimension(L×W×H)	288×150×237mm
Weight	5.2 kg

BT100F/BT300F/BT600F/ Applicable Pump Head and Tube, Flow

Drive Type	Pump Head	Channel	Tube	Single Channel Flow Rate(mL/min)
SF100HT	DG/DS(10 rollers)	8,12,16,24	Wall0.8~1mm，ID≤3.17mm	0.00011~32
	DG/DS(6 rollers)	8,12,16,24	Wall0.8~1mm，ID≤3.17mm	0.00016~49
	DT10-88	8	13# 14#，Wall 0.8~1mm，ID≤3.17mm	0.00023~64
	YZ15/YZ15T	1,2,4	13# 14# 19# 16# 25# 17# 18#	0.005~641
	YT25	1,2,4	114# 116# 15# 24# 35# 36#	0.024~750
	DT15-44	4	19# 16# 25# 17#	0.067~560
	KZ25	1, 2	15#24#35#36#	0.31 ~ 17000
	KZ25-L	1	15#24#35#36#	0.31 ~ 1700

Above flow parameters are obtained by using silicone tube to transfer pure water under normal temperature and pressure,in actually using it is effected by specific factors such as pressure, medium etc. Above for reference only.

Pump Head



DG6/10-1/2/4



DS6/10-1/2/4



DT10-18/28/48



DT15-44



DT15-44

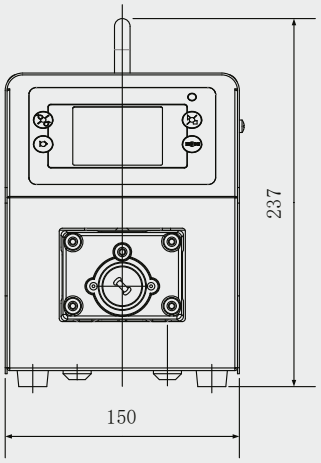


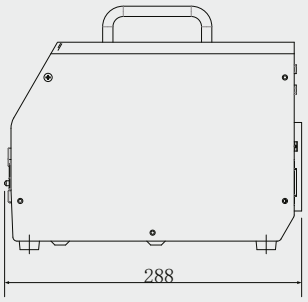
YZ15T



KZ25

Dimension(mm)





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Accessories
for peristaltic pump

Tube Connector

Materials: PP,PVDF,SS316,etc.

Straight, Y Type, T Type		Adjustable Joints			
					
1.6mm	7.9 mm	2.4-1.6mm	4.8-2.4mm	6.4-4.8mm	9.6-7.9mm
2.4 mm	9.6 mm	3.2-1.6mm	4.8-3.2mm	7.9-4.8mm	9.6-8.0mm
3.2 mm	12.7 mm	3.2-2.4mm	6.3-3.5mm	7.9-6.4mm	12.7-6.4mm
3.9 mm	12.7 mm	3.9-2.4mm	6.3-4.8mm	8.0-6.3mm	12.7-7.9mm
4.8 mm		3.9-32mm	6.4-3.2mm	9.5-6.4mm	12.7-9.6mm
6.4 mm		4.8-1.6mm	6.4-3.9mm	9.6-6.3mm	

Foot Switch FS01



Features

Mainly cooperate with full range of products to control the start and stop of the pump.

Dimensions 103×72×25mm

IP grade IP54

Anti-adsorption Countersunk (Aspiration Adapter)



Model	Material	Dimensionmm (ID×OD)	Tubing
CT-2	316L	1.5×2.5	13#, 1×0.92mm
CT-3	316L	2×3	14#, 19# 2×0.92mm, 3×0.92mm
CT-6	316L	4×6	16#, 25#,15#
CT-10	316L	8×10	17#, 24#
CT-12	316L	9×12	18#, 35#, 36#, 73#
CT-16	316L	13×16	82#

Dispensing Needles



Model	Material	Dimension mm (ID×OD×H)	Tubing
ZT-1	304	0.7×0.9×100	13# , 0.5×0.92mm
ZT-2	304	1.8×2×100	1×0.92mm
ZT-3	316L	2×3×100	14#, 19#, 2×0.92mm, 3×0.92mm
ZT-6	316L	4×6×100	16#, 25#,15#
ZT-8	316L	5×8×100	17#, 24#
ZT-12	316L	9×12×100	18#, 35#, 36#, 73#
ZT-12-4	316L	4×12×80	36#, 73#
ZT-16	316L	13×16×100	82#

Silicone Tubing
for peristaltic pump

Function and Feature:

1. Has excellent biocompatibility.
2. Odorless, non-toxic, no plasticizer, very little precipitation.
3. The inner wall is very smooth and has good antibacterial performance.
4. Good elasticity, can quickly restore shape after radial compression (shore hardness:50~55)
5. Weatherproof, ozone-resistant, anti-radiation, excellent anti-aging performance.
6. Suitable for neutral liquids, weak acids, weak bases and some low-concentration solvents.
7. Temperature resistance range -50~230℃ under static state, -40~100℃ temperature resistance under working condition.
8. Can use hot water, distilled water for cleaning; high temperature and high pressure, ethylene oxide, gamma ray sterilization.
9. The color is transparent, translucent to milky white, etc.

Silicone Tubing Specifications:

Tubing No.		0.5x0.92	1x0.92	2x0.92	2.4x0.92	3x0.92	13#	14#	19#	16#	25#	17#	18#
Tubing section (1:1)													
Wall thickness (mm)		0.92					1.6						
ID (mm)		0.5	1.0	2.0	2.4	3.0	0.8	1.6	2.4	3.1	4.8	6.4	7.9
Tubing pressure (Mpa)	Continuous	0.1					0.17				0.14	0.1	0.07
	Interval	0.1					0.27				0.24	0.14	0.1

Tubing No.		114#	119#	116#	15#	24#	35#	36#
Tubing section (1:1)								
Wall thickness (mm)		2.4						
ID (mm)		1.6	2.4	3.1	4.8	6.4	7.9	9.6
Tubing pressure (Mpa)	Continuous	0.17					0.14	
	Interval	0.27					0.24	

Tubing No.		73#	82#	193#	191#	88#	92#
Tubing section (1:1)							
Wall thickness (mm)		3.3		4.8			
ID (mm)		9.6	12.7	9.5	19	12.7	25.4
Tubing pressure (Mpa)	Continuous	0.17	0.1	0.14			
	Interval	0.27	0.1	0.14			

1. The tubing picture in the table is a 1:1 cross-sectional view of the actual product 2. The tubing specifications are marked with a tubing no. or "ID ×wall thickness", such as: 25# or 4.8×1.6mm.
3. The wall thickness of 1.6mm or more can adapt to the higher speed of the peristaltic pump, generally up to 600rpm.
4. High speed cannot be used below 1.0mm wall thickness, generally not more than 100rpm.