SUKONI

PRECISION PUMPING SOLUTIONS

Peristatlic Technology for Pharma & Food





Gentle. Hygienic. Reliable.

The Future of Fluid Transfer in Critical Applications.

PHARMACEUTICAL FOCUS

High accuracy dosing
No cross contamination risk
Easy-validation

FOOD & BEVERAGE FOCUS

Sanitary & Clean in Place
Maintain product quality
Quick change tubing
FDA/EHEDG standards

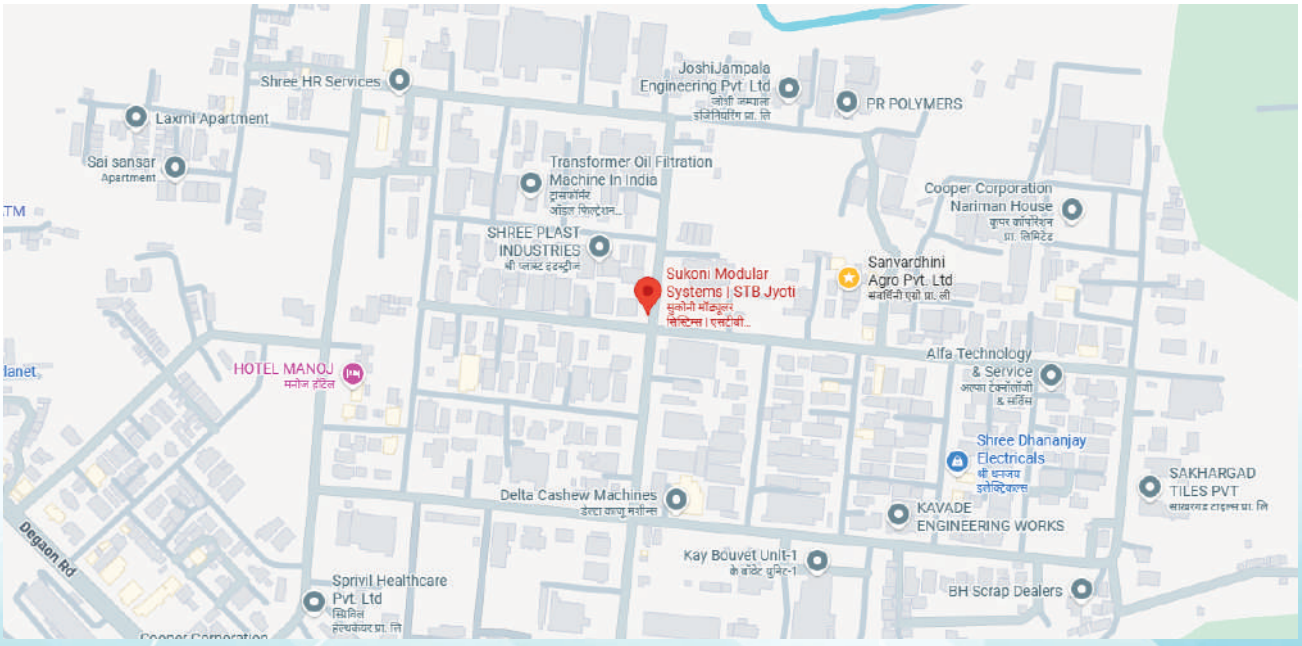
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ABOUT AS

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Sukoni Modular Systems Pvt. Ltd. is a professional innovative Company founded in April 1996 by a team of engineers and PhDs with a common passion for Fluid Handling. In a time of unprecedented scientific progress, we firmly believe Fluid Handling to be the key to a new technological revolution. Our aim is simple but huge: enable research laboratories and members of the scientific community to access the best available instruments and accessories on the market.

company specializing in high-performance industrial solutions. With a focus on innovation and precision, the company is widely recognized for manufacturing high-quality peristaltic pumps, pump heads, and tubing designed for scientific research and liquid-filling applications.



SUKONI

SUD10

Table Of Tubes & Flow Rate	
Tube size	**Silicone Tube**
Moto Speed	#25
ID mm/thk mm	4.8/1.6
300rpm	248





SUD10ST

PRODUCT COMPOSITION AND FLOW RATE RANGE

Product introduction & Features

Compact pump with High flow rate
three Roller Pump
Tube size : #25

Common Stepper Motor Models

NEMA 17 motors pecifications:-
1.5A to 1.8A current per phase
1-4 volts
3 to 8 mH inductance per phase
44 N·cm (62oz·in, 4.5kg·cm)
or more holding torque 1.8 or 0.9 degrees per step
(200/400 steps/rev respectively)

TUBE SIZE #25		
Tube Flow Rate Per Min-MINI 350		
4.8 ID X 8.00 OD	1.6 THK	
RPM	Flow rate per Revolution	Flow Rate (Per Min)
600 RPM	0.83	500 ml/min

APPLICATION:

- ◂ Coffee machine
- ◂ Tea machine
- ◂ Ice-cream machine
- ◂ Food industry



SUD 14/SUD 15

Product introduction & Features
Compact pump with High flow rate
Two Roller Pump
Tube size : #24, #35, #25
Coming with mounting panel.

SUD14 ST/SUD15 ST

Product introduction & Features
Compact pump with Stepper Motor
with High flow rate
Two Roller Pump
Tube size : #24, #35, #25
Stepper Motor-20Kg Cm
1.8 Hyper Stepping
coming with mounting panel.





SUD14 DC/SUD15 DC

Product introduction & Features
Compact pump with DC Motor with
High flow rate
Two Roller Pump
DC Motor-24V (300 RPM)
Tube size : #24, #35, #25
coming with mounting panel.

PRODUCT COMPOSITION AND FLOW RATE RANGE

Table Of Tubes & Flow Rate						
Tube size	**Silicone Tube**			**A-60-TPE Tube**		
Moto Speed	#24	#35	#25	#24	#35	#25
ID mm/thk mm	6.4/2.4	7.9/2.4	4.8/1.6	6.4/2.4	7.9/2.4	4.8/1.6
300rpm	850	1000	650	850	1000	650

APPLICATION:

- Coffee machine
- Tea machine
- Ice-cream machine
- Food industry

TUBE SIZE #24		
Tube Flow Rate Per Min SUD 15		
6.4 ID X 11.2 OD	2.4 THK	
RPM	Flow rate per Revolution	Flow Rate (Per Min)
600 RPM	2.86	1720 ml/min

TUBE SIZE #35		
Tube Flow Rate Per Min SUD 15		
7.9 ID X 12.7 OD	2.4 THK	
RPM	Flow rate per Revolution	Flow Rate (Per Min)
600 RPM	3.36	2020 ml/min

TUBE SIZE #25		
Tube Flow Rate Per Min SUD 14		
4.8 ID X 8.0 OD	1.6 THK	
RPM	Flow rate per Revolution	Flow Rate (Per Min)
600 RPM	2.16	1300 ml/min

SSNP 15

Product introduction & Features

Compact Structure. / PC Material.
Roller Stainless steel 304 with precision Ball Bearing
Match with various of Instruments.
Flow rate: 1.66-1000ml/min.
The SSNP 15 can work with DC motor,
AC motor and Stepper motor.
This pumps can be fitted with stepper / DC/AC motor.



PRODUCT COMPOSITION AND FLOW RATE RANGE

Table Of Tubes & Flow Rate	
Tube size	**Silicone Tube**
Moto Speed	#15
ID mm/thk mm	4.8/2.4
300rpm	420

TUBE SIZE #15		
Tube Flow Rate Per Min-SSNP 15		
4.8 ID X 9.6 OD	THIK 2.4	
RPM	Flow rate per Revolution	Flow Rate (Per Min)
600 RPM	1.66	1000 ml/min

APPLICATION:

1) Pharmaceutical and Biotechnology Industries: Ideal for handling sensitive or corrosive fluids where contamination must be avoided due to its peristaltic design.
2) Food Processing: The ability to provide consistent and accurate flow rates for various liquids.
3) Industrial and Laboratory Use: General fluid management solutions requiring a compact and durable pump head.



SYZ2515

Product introduction & Features

SYZ2515 pump head for Longer peristaltic pumps.
Based on an automatic tubing retention mechanism,
this pump head allows using a wide range of tubing dimensions
and formulations without stoppers.
Roller Stainless steel 304 with precision ball bearing.
This pump head will get Same featurs of SYZ1515
Featurs - With Stepper Motor/With Dc Motor/
With Sipmle Controller/With Advance Controller/
With Flam Proof Motor These All Peritsaltic Pump are Avaliable

PRODUCT COMPOSITION AND FLOW RATE RANGE

Table Of Tubes & Flow Rate				
Tube size	**Silicone Tube**			
Moto Speed	#15	#24	#35	#36
ID mm/thk mm	4.8/2.4	6.4/2.4	7.9/2.4	9.6/2.4
300rpm	480	800	1173	1525

TUBE SIZE #15		
Tube Flow Rate Per Min SYZ2515		
4.8 ID X 9.6 OD	THIK 2.4	
RPM	Flow rate per Revolution	Flow Rate (Per Min)
600 RPM	1.62	977 ml/min

TUBE SIZE #24		
Tube Flow Rate Per Min SYZ2515		
6.4 ID X 11.2 OD	THIK 2.4	
RPM	Flow rate per Revolution	Flow Rate (Per Min)
600 RPM	2.75	1652 ml/min

TUBE SIZE #35		
Tube Flow Rate Per Min SYZ2515		
7.9 ID X 12.7 OD	THIK 2.4	
RPM	Flow rate per Revolution	Flow Rate (Per Min)
600 RPM	4	2400 ml/min

TUBE SIZE #36		
Tube Flow Rate Per Min SYZ2515		
9.6 ID X 14.4 OD	THIK 2.4	
RPM	Flow rate per Revolution	Flow Rate (Per Min)
600 RPM	5.08	3050 ml/min

APPLICATION:

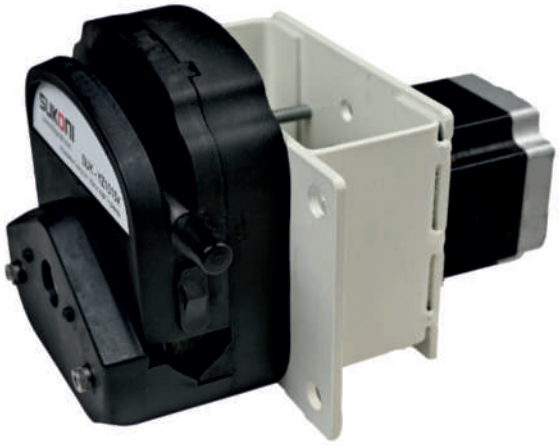
1) Chemical Processing: The high-grade stainless steel construction ensures resistance to corrosion and wear, making it suitable for handling various chemicals.
2) Biotechnology: Its ability to provide smooth, accurate, and consistent flow is beneficial for precise fluid handling in biological applications.
4) Food and Beverage Production: The material compatibility and hygienic potential (as a peristaltic pump) make it applicable in certain food and beverage processing tasks.
5) Pharmaceutical Applications: The need for precise and contamination-free fluid transfer in pharmaceutical production makes this type of pump head useful.



SYZ1515

Product introduction & Features

SYZ1515 pump head for Longer peristaltic pumps.Based on an automatic tubing retention mechanism,this pump head allows using a wide range of tubing dimensions and formulations without stoppers.
Roller Stainless steel 304 with precision ball bearing.



SYZ1515ST

Product introduction & Features

SYZ1515 ST pump head With Stepper Motor for Longer peristaltic pumps.
Stepper Motor- 25Kg Cm 1.8 Hyper stepping Based on an automatic tubing retention mechanism,this pump head allows using a wide range of tubing dimensions and formulations without stoppers.



SYZ1515 DC/AC

Product introduction & Features

SYZ 1515 DC/AC Pump head With DC Motor foonger peristaltic pumps.
DC Motor- 40W, 24V or AC Motor-240V
Based on an automatic tubing retention mechanism, using a wide range of tubing dimensions and formulations without stoppers. Roller
Stainless steel 304 with precision ball bearing.



SYZ 1515 FLP

Product introduction & Features

SYZ1515 FLP Pump is fully protected motor Housing.
This pump designed for use in hazardous environments where there's a risk of fire or explosion due to flammable vapors, gases, or dust.Such pumps are engineered to prevent any ignition of the hazardous atmosphere through their design and construction.

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PRODUCT COMPOSITION AND FLOW RATE RANGE

TABLE OF TUBES & FLOW RATE (6 ROLLER)							
Tube size	**Silicone Tube**						
Moto Speed	#13	#14	#16	#17	#18	#19	#25
ID mm/thk mm	0.8/1.6	1.6/1.6	3.1/1.6	6.4/1.6	7.9/1.6	2.4/1.6	4.8/1.6
300rpm	13	75	180	500	600	115	320

TABLE OF TUBES & FLOW RATE (3 ROLLER)							
Tube size	**Silicone Tube**						
Moto Speed	#13	#14	#16	#17	#18	#19	#25
ID mm/thk mm	0.8/1.6	1.6/1.6	3.1/1.6	6.4/1.6	7.9/1.6	2.4/1.6	4.8/1.6
300rpm	22	95	280	1000	1300	150	550

6 ROLLER SYZ1515

TUBE SIZE #13		
Tube Flow Rate Per Min SYZ1515		
0.8 ID X 4.0 OD	THIK 1.6	
RPM	Flow rate per Revolution	Flow Rate (Per Min)
600 RPM	0.046	28 ml/min

TUBE SIZE #14		
Tube Flow Rate Per Min SYZ1515		
1.6 ID X 4.8 OD	THIK 1.6	
RPM	Flow rate per Revolution	Flow Rate (Per Min)
600 RPM	0.23	140 ml/min

TUBE SIZE #16		
Tube Flow Rate Per Min SYZ1515		
3.1 ID X 6.4 OD	THIK 1.6	
RPM	Flow rate per Revolution	Flow Rate (Per Min)
600 RPM	0.6	360 ml/min

TUBE SIZE #17		
Tube Flow Rate Per Min SYZ1515		
6.4 ID X 3.6 OD	THIK 1.6	
RPM	Flow rate per Revolution	Flow Rate (Per Min)
600 RPM	1.76	1060 ml/min

TUBE SIZE #18		
Tube Flow Rate Per Min SYZ1515		
7.9 ID X 11.1 OD	THIK 1.6	
RPM	Flow rate per Revolution	Flow Rate (Per Min)
600 RPM	2	1200 ml/min

TUBE SIZE #19		
Tube Flow Rate Per Min SYZ1515		
2.4 ID X 4.0 OD	THIK 1.6	
RPM	Flow rate per Revolution	Flow Rate (Per Min)
600 RPM	0.35	210 ml/min

TUBE SIZE #25		
Tube Flow Rate Per Min SYZ1515		
4.8 ID X 8.00 OD	THIK 1.6	
RPM	Flow rate per Revolution	Flow Rate (Per Min)
600 RPM	1.15	690 ml/min

3 ROLLER SYZ1515

TUBE SIZE #13		
Tube Flow Rate Per Min SYZ1515		
0.8 ID X 4.0 OD	THIK 1.6	
RPM	Flow rate per Revolution	Flow Rate (Per Min)
600 RPM	0.048	41 ml/min

TUBE SIZE #14		
Tube Flow Rate Per Min SYZ1515		
1.6 ID X 4.8 OD	THIK 1.6	
RPM	Flow rate per Revolution	Flow Rate (Per Min)
600 RPM	0.275	165 ml/min

TUBE SIZE #16		
Tube Flow Rate Per Min SYZ1515		
3.1 ID X 6.4 OD	THIK 1.6	
RPM	Flow rate per Revolution	Flow Rate (Per Min)
600 RPM	0.866	520 ml/min

TUBE SIZE #17		
Tube Flow Rate Per Min SYZ1515		
6.4 ID X 3.6 OD	THIK 1.6	
RPM	Flow rate per Revolution	Flow Rate (Per Min)
600 RPM	3.475	2085 ml/min

TUBE SIZE #18		
Tube Flow Rate Per Min SYZ1515		
7.9 ID X 11.1 OD	THIK 1.6	
RPM	Flow rate per Revolution	Flow Rate (Per Min)
600 RPM	4.66	2800 ml/min

TUBE SIZE #19		
Tube Flow Rate Per Min SYZ1515		
2.4 ID X 5.6 OD	THIK 1.6	
RPM	Flow rate per Revolution	Flow Rate (Per Min)
600 RPM	0.458	275 ml/min

TUBE SIZE #25		
Tube Flow Rate Per Min SYZ1515		
4.8 ID X 8.00 OD	THIK 1.6	
RPM	Flow rate per Revolution	Flow Rate (Per Min)
600 RPM	1.316	1150 ml/min

APPLICATION:

1) Laboratory: Reagent addition, sample analysis, microfluidics, analytical instrumentation.
2) Medical: Dispensing fluids, IV drips, bioprocessing.
3) Industrial: Chemical transfer, water treatment, pilot plant testing, solvent extraction.
4) Food & Beverage: Liquid filling, dosing, beverage processing.



SDZ25-6L

Product introduction & Features

SDZ25-6L pump head use 2.4mm wall thickness tube,
the flow rate range is 8.33-5000ml/min. This pump head is suitable for high viscous liquid which include granule and floc.
It also suitable for high pressure request. cartridge structure design, can use the special connector, connect low cost tubing outside the pump head to save cost; also can use flexible tube card, meet hygiene requirement. Roller Stainless steel 304 with precision ball bearing.

SDZ25-6L ST

Product introduction & Features

SDZ25-6L DC/AC pump head with DC motor use 2.4mm wall thickness tube,
DC Motor-40W, 24V DC The flow rate range is 8.33-5000ml/min.
This pump head is suitable for high viscous liquid which include granule and floc.
It also suitable for high pressure request.
cartridge structure design, can use the special connector, connect low cost tubing outside the pump head to save cost; also can use flexible tube card, meet hygiene requirement.
Roller Stainless steel 304 with precision ball bearing.





SDZ25-6L DC/AC

Product introduction & Features

SDZ25-6L DC/AC pump head with DC motter use 2.4mm wall thickness tube,
DC Motor-40W, 24V DC The flow rate range is 8.33-5000ml/min.
This pump head is suitable for high viscous liquid which include granule and floc.
It also suitable for high pressure request.
cartridge structure design, can use the special connector,
connect low cost tubing outside the pump head to save cost;
also can use flexible tube card, meet hygiene requirement.
Roller Stainless steel 304 with precision ball bearing.

SDZ25-6 FLP

Product introduction & Features

SDZ25-6 FLP Pump is fully protected motor Housing.
This pump designed for use in hazardous environments where there's a risk of fire or explosion due to flammable vapors, gases, or dust. Such pumps are engineered to prevent any ignition of the hazardous atmosphere through their design and construction.
Motor Size-2Hp



PRODUCT COMPOSITION AND FLOW RATE RANGE

Table Of Tubes & Flow Rate				
Tube size	**Silicone Tube**			
Moto Speed	#15	#24	#35	#36
ID mm/thk mm	4.8/2.4	6.4/2.4	7.9/2.4	9.6/2.4
300rpm	910	1500	2200	2900

TUBE SIZE #15		
Tube Flow Rate Per Min SDZ25-6 FLP		
4.8 ID X 9.6 OD	THIK 2.4	
RPM	Flow rate per Revolution	Flow Rate (Per Min)
600 RPM	3.25	1950 ml/min

TUBE SIZE #24		
Tube Flow Rate Per Min SDZ25 6L		
6.4 ID X 11.2 OD	THIK 2.4	
RPM	Flow rate per Revolution	Flow Rate (Per Min)
600 RPM	5	3000 ml/min

TUBE SIZE #35		
Tube Flow Rate Per Min SDZ25 6L		
7.9 ID X 12.7 OD	THIK 2.4	
RPM	Flow rate per Revolution	Flow Rate (Per Min)
600 RPM	5.83	3500 ml/min

TUBE SIZE #36		
Tube Flow Rate Per Min SDZ25 6L		
9.6 ID X 14.4 OD	THIK 2.4	
RPM	Flow rate per Revolution	Flow Rate (Per Min)
600 RPM	8.33	5000 ml/min

APPLICATION:

1) Petroleum Industry: Transferring petrol, kerosene, diesel, and other oil products within refineries, terminals, or fuel depots.
2) Chemical Processing: Moving various solvents and flammable chemicals in manufacturing or processing plants.
3) Industrial Use: General industrial fluid transfer in areas requiring certified explosion-proof equipment.
4) Mining: Used in oil mines and similar installations where explosive atmospheres are a concern.

SYZ35-12L



Product introduction & Features

The SYZ35-12L pump head has stainless steel rollers and PSU housing.
This pump head I mainly for industrial applications.
Suitable for two sizes of tubing, #73 and #82.
New Loading structure of tube, easy and fast to replace tube and the tube will not deviation in the process of operation. Pressure tube clearance can fine adjustment according to the tube size.
Can adapt to small deviations of pump tube size.
Roller Stainless steel 304 with precision ball bearing. The SYZ35-12L can work with DC motor, AC motor and Stepper motor.

PRODUCT COMPOSITION AND FLOW RATE RANGE

Table Of Tubes & Flow Rate		
Tube size	**Silicone Tube**	
Moto Speed	#73	#82
ID mm/thk mm	9.6/3.3	12.7/3.3
300rpm	4750	5700

TUBE SIZE #73		
Tube Flow Rate Per Min SYZ35-12L		
9.6 ID X 16.2 OD	THIK 3.3	
RPM	Flow rate per Revolution	Flow Rate (Per Min)
600 RPM	15.83	9500 ml/min

TUBE SIZE #82		
Tube Flow Rate Per Min SYZ35-12L		
12.7 ID X 19.3 OD	THIK 3.3	
RPM	Flow rate per Revolution	Flow Rate (Per Min)
600 RPM	20	12000 ml/min

APPLICATION:

The peristaltic pump head is designed for demanding industrial use where precise and reliable fluid handling is necessary.
Specific applications can include: Chemical processing Water and wastewater treatment
Pharmaceutical and laboratory uses, including liquid transfer for experiments or production lines
Dosing systems for adding precise amounts of chemicals or other liquids
Food, dairy, and beverage industries
Handling of various fluids, including corrosive or viscous liquids, slurries, and even some gases, due to the non-contact pumping mechanism where the fluid only touches the inside of the tubing
Batch transfer in manufacturing processes

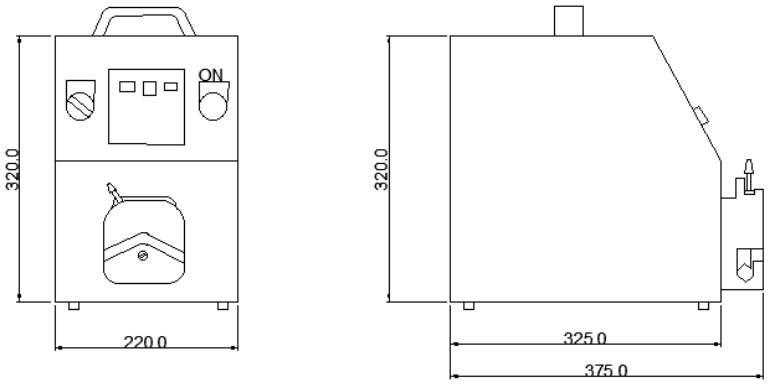
SEMI ADVANCE CONTROLLER

SYZ1515-CTRL

Pump Head



Dimension Drawing (Unit mm)

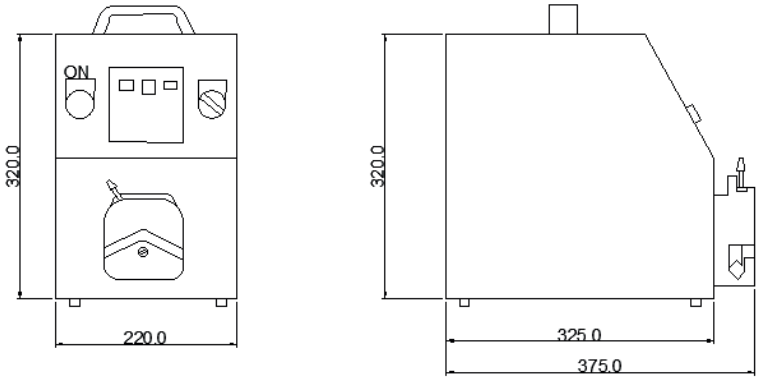


SDZ25-CTRL

Pump Head



Dimension Drawing (Unit mm)

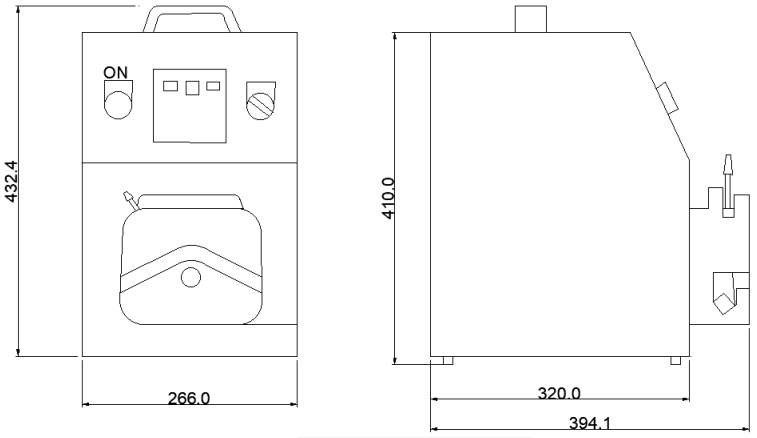


SYZ35-CTRL

Pump Head



Dimension Drawing (Unit mm)





Programmable Logic Controller

A) OFF/ON switch :
A rotary switch to turn the system on or off.

B) Digital display :
Shows numerical values for fill Time/Quantity, RPM/Flow rate and Pause Time. The display reads for all three parameters suggesting it is either in a default state, an error state, or simply not currently displaying active values.

C) Control button :
1) Prime : Likely used to prime the pump.
2) DIR(Direction) : Used to change the direction of the pump.
3) Type : Used to select the operation mode.(CONT, MONO, CYCL).
4) Start/Stop : Used to start and stop the system.
5) Mode : Might be used to switch between different control modes or settings.

D) Operation mode indicators :
Labels indicate the meaning of the control settings.
1) CONT : Continuous operation.
2) MONO : Single cycle operation.
3) CYCL : Repeated cycles operation.

E) On button :
A green button to activate the system.

To operate the device

1) Select mode :
Choose the desired mode (CONT, CYCL or MONO)

2) Set parameters :
Use the arrow buttons to set the fill time/quantity, RPM/flowrate, and pause time as needed.

3) Start operation :
Press the start stop button.

4) Adjust as needed :
Use the other function button (PRIME, DIR, TYPE/MODE) to make further adjustments during operation if necessary.

To use the controller consider the following

Disply Areas :
There are three digital displays for fill TIME/QTY, RPM/FLOW RATE AND PAUSE TIME. These likely show numerical values for the corresponding settings.

Arrows button :
Below each display are up and down arrow buttons, presumably used to adjust the values shown on the displays.

Mode indicators :
At the top CONT, CYCL, and MONO indicate continuous, repeated cycles and one cycle modes, respectively. The light indicator shows the current mode.

Function buttons :
At the bottom, there are buttons labelled PRIME, DIR, TYPE/MODE, and START/STOP.
These likely control primary functions, direction of operation, mode selection, and starting/stoping the device.

Understanding the controller

A) Display :
The three displays likely shows the numerical values for:
1) Fill Time/Quantity
2) RPM/FLOW RATE
3) Pause Time

B) Buttons :
1) Up/Down Arrows
2) Prime
3) Dir(Direction)
4) Type/Mode
5) Start/Stop

C) Indicators :
1) CW/CCW-:Clockwise/Counterclockwise
2) CONT/CYCL/MONO

Operating Instruction

1) Priming the pump :
A) Ensure the pump is properly connected to the suction and discharge line.
B) Press the Prime button to remove air from the system.This may need to be done before the initial start-up or if the pump loses prime.

2) Setting Parameters :
Use the up/down arrow buttons to set the desired values for fill Time/Quantity, RPM/ Floe Rate, and Pause time.

3) Selcting Operation Mode :
Press the Type/Mode button to cycle through the available modes.

4) Setting Direction :
If needed, Press the direction button to change the pumps direction.

5) Starting/Stoping :
Press the Start/Stop button to begin operation, Press it again to stop.

Additional Notes

1) Priming the pump :
A) Ensure the pump is properly connected to the suction and discharge line.
B) Press the Prime button to remove air from the system. This may need to be done before the initial start-up or if the pump loses prime.

2) Setting Parameters :
Use the up/down arrow buttons to set the desired values for fill Time/Quantity, RPM/ Floe Rate, and Pause time.

3) Selecting Operation Mode :
Press the Type/Mode button to cycle through the available modes.

4) Setting Direction :
If needed, Press the direction button to change the pumps direction.

5) Starting/Stoping :
Press the Start/Stop button to begin operation, Press it again to stop.

TUBES





Silicone tubes and thermoplastic elastomer (TPE) tubes have distinct differences:

Thermoplastic (TPE) Tubing

1. Material: A blend of plastic and rubber-like materials.
2. Temperature resistance: Good resistance to temperatures, but generally lower than silicone (typically -40°C to 120°C).
3. Chemical resistance: Resistant to some chemicals, but may be affected by certain solvents or oils.
4. Biocompatibility: Some TPEs are biocompatible, but not all; depends on the specific formulation.
5. Flexibility: Flexible, but may exhibit some plastic deformation under stress.

Silicone Tubing

1. Material: Made from silicone rubber, a flexible and inert material.
2. Temperature resistance: Excellent resistance to high and low temperatures (-50°C to 200°C).
3. Chemical resistance: Resistant to many chemicals, including oils, greases, and cleaning agents.
4. Biocompatibility: Often used in medical applications due to biocompatibility and non-toxicity.
5. Flexibility: Highly flexible and can withstand compression.

Key differences

1. Temperature range: Silicone tubes have a broader temperature range.
2. Chemical resistance: Silicone tubes are generally more resistant to chemicals.
3. Biocompatibility: Silicone tubes are often preferred for medical applications due to biocompatibility.
4. Cost: TPE tubes nos more life and little costlier.

The choice between silicone and TPE tubes depends on the specific application,considering factors like temperature,chemical exposure, and biocompatibility requirements.

Silicon/Thermoplastic Elastomer Tubes

Tube No	ID	OD	Thickness	Order Code	
				Silicon	Thermoplastic Elastomer
#14	1.6	4.8	1.6	S14164816	TPE14164816
#13	0.8	4	1.6	S13084016	TPE13084016
#16	3.1	6.4	1.6	S16316416	TPE16316416
#25	4.8	8	1.6	S25488016	TPE25488016
#19	2.4	5.6	1.6	S19275616	TPE19275616
#17	6.4	9.6	1.6	S17649616	TPE17649616
#18	7.9	11.1	1.6	S18791316	TPE18791316

Tube No	ID	OD	Thickness	Order Code	
				Silicon	Thermoplastic Elastomer
#15	4.8	9.6	2.4	S15489624	TPE15489624
#24	6.4	11.2	2.4	S24641124	TPE24641124
#35	7.9	12.7	2.4	S35791224	TPE35791224
#36	9.6	14.4	2.4	S36961424	TPE36961424

Tube No	ID	OD	Thickness	Order Code	
				Silicon	Thermoplastic Elastomer
#73	9.6	16.2	3.3	S73961633	TPE73961633
#82	12.7	19.3	3.3	S82121933	TPE82121933