

Peristaltic Pump



Acuflo D-100A is a high performance ,Direct drive, fully programmable variable speed peristaltic pump drive which delivers consistent and repeatable flow rates with suitable pump head MF1515, MF2515, LF-1 and LF-2. The pump provides flow rates from 0.06 to 290 mL/min for single channel. The pump utilizes high-torque stepper motor as drive and micro controller based micro stepping drive to make the running smoother , noise less and precise. The front control panel includes start/stop, speed control and direction control keys .

Application :

- Fluids sampling or testing
- Laboratory
- Industrial /process
- Precise dosing in biotech & pharmaceutical
- Dispensing and filling fluids
- Other fluids transfer

Specifications

Speed: 1 to 100 rpm, reversible
 Speed precision: 0.1 rpm
 Set point control: Membrane keypad (local) / remote
 Display: 3-digit LED displays
 Digital control: Start/stop and cw/ccw control,
 Analog interface: 0 to 5 V, 0 to 10 V, and 4 to 20 mA speed control (Optional)
 Function : Memory function, storing the running parameters automatically
 Applicable pump heads: MF1515, MF2515, LF-1 and LF-2

Power supply: AC 220 V 10% 50/60 Hz
 Power consumption: 22 W
 Operating condition: Temperature 0 to 45° C
 Relative humidity < 80%
 Drive weight: 2.8 kg
 IP rating: IP 31, Ip65
 Dimensions (L x W x H): 212 x 112 x 142 (mm)



DesignInnova
 Innovation in design



(A Unit of Arrow weighing System Pvt. Ltd.)
 A-12 Naraina Industrial Area Phase 1, New Delhi 110028 (India)
 Ph: +91-11-45588233, +91-11-25705783 fax:+91-11-25791641 ,
 Email : designinnova@gmail.com , sales@designinnova.com

Peristaltic Pump



Acuflo D-150AS is a high performance ,Direct drive, fully programmable variable speed peristaltic pump drive which delivers consistent and repeatable flow rates with suitable pump head MF1515, MF2515, LF-1 and LF-2. The pump provides flow rates from 0.06 to 435 mL/min for single channel. The pump utilizes high-torque stepper motor as drive and micro controller based micro stepping drive to make the running smoother , noise less and precise. The front control panel includes start/stop, speed control and direction control keys .

Application :

- Fluids sampling or testing
- Laboratory
- Industrial /process
- Precise dosing in biotech & pharmaceutical
- Dispensing and filling fluids
- Other fluids transfer

Specifications

Speed: 0.1 to 150 rpm, reversible
 Speed precision: 0.1 rpm (up to 99.9 rpm) & 1.0 rpm from 100 to 150
 Set point control: Membrane keypad (local) / remote
 Display: 3-digit LED displays
 Digital control: Start/stop and cw/ccw control,
 Analog interface: 0 to 5 V, 0 to 10 V, and 4 to 20 mA speed control (Optional)
 Function : Memory function, storing the running parameters automatically
 Applicable pump heads: MF1515, MF2515, LF-1 and LF-2

Power supply: AC 220 V 10% 50/60 Hz
 Power consumption: 22 W
 Operating condition: Temperature 0 to 45° C
 Relative humidity < 80%
 Drive weight: 2.8 kg
 IP rating: IP 31, Ip65
 Dimensions (L x W x H): 212 x 112 x 142 (mm)



DesignInnova
 Innovation in design



(A Unit of Arrow weighing System Pvt. Ltd.)
 A-12 Naraina Industrial Area Phase 1, New Delhi 110028 (India)
 Ph: +91-11-45588233, +91-11-25705783 fax:+91-11-25791641 ,
 Email : designinnova@gmail.com , sales@designinnova.com

Peristaltic Pump



Acuflo D-150ASD is a high performance, Direct drive, fully programmable variable speed peristaltic pump drive which delivers consistent and repeatable flow rates with suitable pump head MF1515, MF2515, LF-1 and LF-2. The pump provides flow rates from 0.06 to 435 mL/min for single channel. The pump utilizes high-torque stepper motor as drive and micro controller based micro stepping drive to make the running smoother, noise less and precise. The front control panel with start/stop, speed control, direction control keys and various remote control interfaces, analog, digital and RS485 / RS232 allowing to connect to various Equipments.

Application :

- Fluids sampling or testing
- Laboratory
- Industrial /process
- Precise dosing in biotech & pharmaceutical
- Dispensing and filling fluids
- Other fluids transfer

Specifications

Speed: 0.1 to 150 rpm, reversible
 Speed precision: 0.1 rpm (up to 99.9 rpm) & 1.0 rpm from 100 to 150
 Set point control: Membrane keypad (local) / remote
 Display: 3-digit LED displays
 Digital control: Start/stop and cw/ccw control,
 Analog interface: 0 to 5 V, 0 to 10 V, and 4 to 20 mA speed control (Optional), 0-10kHz (digital)
 Digital Interface : RS485 / RS232 serial interface for communication/ data logging / control .
 Function : Memory function, storing the running parameters automatically
 Applicable pump heads: MF1515, MF2515, LF-1 and LF-2

Power supply: AC 95- 256 AC 50/60 Hz
 Power consumption: 30 W
 Operating condition: Temperature 0 to 45° C
 Relative humidity < 80%
 Drive weight: 2.8 kg
 IP rating: IP 31, Ip65
 Dimensions (L x W x H): 232 mm x 142 mm x 149 mm



DesignInnova
 Innovation in design



(A Unit of Arrow weighing System Pvt. Ltd.)
 A-12 Naraina Industrial Area Phase 1, New Delhi 110028 (India)
 Ph: +91-11-45588233, +91-11-25705783 fax: +91-11-25791641 ,
 Email : designinnova@gmail.com , sales@designinnova.com

low flow peristaltic Pump



Specifications

channels : one programmable channel
 Speed: 0.1 to 50 rpm, reversible
 Speed precision: ± 0.1 RPM
 flow rate : 0.001 to 20ml / min
 Set point control: digital user interface
 Control: Start/stop and cw/ccw control
 Pump head : Quick-release sprung tube clamps with
 Precision-machined four-roller rotor for
 Smooth, precise flow
 Interface : Serial , USB (optional)
 Power supply: AC 95- 256 AC 50/60 Hz
 Power consumption: < 50 W
 Operating condition: Temperature 0 to 55° C
 Relative humidity < 80%
 Drive weight: 5.3 kg
 IP rating: IP 31
 Dimensions (L x W x H): 300 mm x 175 mm x 250 mm

Acuflo D2X-01 is a high performance, fully programmable, variable speed two independent channel low flow, four roller peristaltic pump heads which delivers consistent and repeatable flow rates. The pump provides flow rates from 0.001 to 20 ml / min per channel. The pump utilizes high-torque hybrid step motor as drive delivering precise flow rates. The front control panel has Intuitive user interface, easy setup, with fewer key i.e. speed control, direction control start / stop. The suitable tube having wall Thickness : 0.8 - 1.0, Inner Diameter : ≤ 3.0 mm

Application :

- Fluids sampling or testing
- Laboratory
- Industrial /process
- Precise dosing in biotech & pharmaceutical
- Dispensing and filling fluids
- Other fluids transfer

Low flow rate Peristaltic pump head OEM10



DesignInnova
Innovation in design



(A Unit of Arrow weighing System Pvt. Ltd.)
 A-12 Naraina Industrial Area Phase 1, New Delhi 110028 (India)
 Ph: +91-11-45588233, +91-11-25705783 fax:+91-11-25791641 ,
 Email : designinnova@gmail.com , sales@designinnova.com

2 Channel low flow peristaltic Pump



Specifications

channels : Two independent programmable channels
Speed: 0.1 to 50 rpm, reversible
Speed precision: ± 0.1 RPM
flow rate : 0.001 to 20ml / min
Set point control: digital user interface
Control: Start/stop and cw/ccw control
Pump head : Quick-release sprung tube clamps with
 Precision-machined four-roller rotor for
 Smooth, precise flow
Interface : Serial , USB (optional)
Power supply: AC 95- 256 AC 50/60 Hz
Power consumption: < 50 W
Operating condition: Temperature 0 to 55° C
Relative humidity < 80%
Drive weight: 5.3 kg
IP rating: IP 31
Dimensions (L x W x H): 300 mm x 175 mm x 250 mm

Acuflo D2X-01 is a high performance, fully programmable, variable speed two independent channel low flow, four roller peristaltic pump heads which delivers consistent and repeatable flow rates. The pump provides flow rates from 0.001 to 20 ml / min per channel. The pump utilizes high-torque hybrid step motor as drive delivering precise flow rates. The front control panel has Intuitive user interface, easy setup, with fewer key i.e. speed control, direction control start / stop. The suitable tube having wall Thickness : 0.8 - 1.0, Inner Diameter : ≤ 3.0 mm

Application :

- Fluids sampling or testing
- Laboratory
- Industrial /process
- Precise dosing in biotech & pharmaceutical
- Dispensing and filling fluids
- Other fluids transfer

Low flow rate Peristaltic pump head OEM10



DesignInnova
Innovation in design



(A Unit of Arrow weighing System Pvt. Ltd.)
 A-12 Naraina Industrial Area Phase 1, New Delhi 110028 (India)
 Ph: +91-11-45588233, +91-11-25705783 fax:+91-11-25791641 ,
 Email : designinnova@gmail.com , sales@designinnova.com

4 Channel low flow peristaltic Pump



Specifications

channels : four independent programmable channels

Speed: 0.1 to 50 rpm, reversible

Speed precision: ± 0.1 RPM

flow rate : 0.001 to 20ml / min

Set point control: digital user interface

Control: Start/stop and cw/ccw control

Pump head : Quick-release sprung tube clamps with
Precision-machined four-roller rotor for
Smooth, precise flow

Interface : Serial , USB (optional)

Power supply: AC 95- 256 AC 50/60 Hz

Power consumption: < 50 W

Operating condition: Temperature 0 to 55° C

Relative humidity < 80%

Drive weight: 5.3 kg

IP rating: IP 31

Dimensions (L x W x H): 300 mm x 175 mm x 250 mm

Acuflo D4X-01 is a high performance, fully programmable, variable speed four independent channel low flow, four roller peristaltic pump heads which delivers consistent and repeatable flow rates. The pump provides flow rates from 0.001 to 20 ml / min per channel. The pump utilizes high-torque hybrid step motor as drive delivering precise flow rates. The front control panel has intuitive user interface, easy setup, with fewer key i.e. speed control, direction control start / stop. The suitable tube having wall Thickness : 0.8 - 1.0, Inner Diameter : ≤ 3.0 mm

Application :

Fluids sampling or testing

Laboratory

Industrial /process

Precise dosing in biotech & pharmaceutical

Dispensing and filling fluids

Other fluids transfer

Low flow rate Peristaltic pump head OEM10



DesignInnova

Innovation in design



(A Unit of Arrow weighing System Pvt. Ltd.)

A-12 Naraina Industrial Area Phase 1, New Delhi 110028 (India)

Ph: +91-11-45588233, +91-11-25705783 fax:+91-11-25791641 ,

Email : designinnova@gmail.com , sales@designinnova.com

Peristaltic Pump



Acuflo A-600 is a high performance, fully programmable variable speed peristaltic pump drive which delivers consistent and repeatable flow rates with suitable pump head MF1515, MF2515. The pump provides flow rates from 0.1 to 2280 ml/min for single channel. The pump utilizes high-torque DC Geared motor as drive delivering precise flow rates. The front control panel has speed control, direction control.

Application :

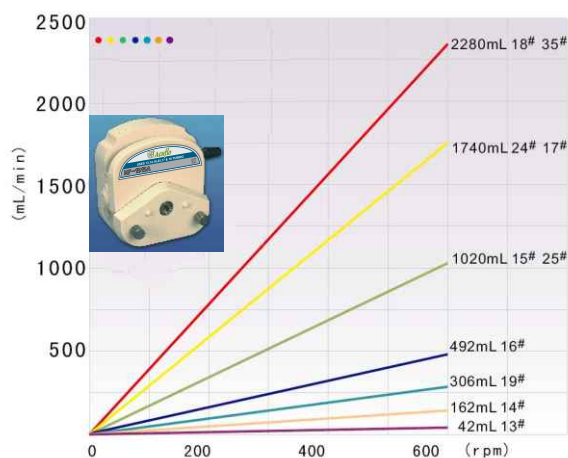
- Fluids sampling or testing
- Laboratory
- Industrial /process
- Precise dosing in biotech & pharmaceutical
- Dispensing and filling fluids
- Other fluids transfer

Specifications

Speed: 1 to 600 rpm, reversible
 Speed precision: ± 1 RPM
 flow rate : 0.1 to 2280 ml / min
 Set point control: 10-turn potentiometer
 Control: Start/stop and cw/ccw control
 Analog interface: speed control (Optional)
 Applicable pump heads: MF1515, MF2515

Power supply: AC 95- 256 AC 50/60 Hz
 Power consumption: < 50 W
 Operating condition: Temperature 0 to 45° C
 Relative humidity < 80%
 Drive weight: 5.3 kg
 IP rating: IP 31
 Dimensions (L x W x H): 330 mm x 142 mm x 172 mm

Flow rate chart with Mf1515 head



DesignInnova
 Innovation in design



(A Unit of Arrow weighing System Pvt. Ltd.)
 A-12 Naraina Industrial Area Phase 1, New Delhi 110028 (India)
 Ph: +91-11-45588233, +91-11-25705783 fax:+91-11-25791641 ,
 Email : designinnova@gmail.com , sales@designinnova.com

Peristaltic Pump



Specifications

Speed: 20 to 350 rpm, reversible
 Speed precision: ± 1 RPM
 flow rate : 10 to 1000 ml / min (depend on head)
 ACU12-60 60ml/min (max)
 ACU12-500 500ml/min (max)
 ACU12-1000 1000ml/min. (Max)
 Set point control: digital
 Control: Start/stop and cw/ccw control
 and timer up to 9999 seconds
 Power supply: AC 95- 256 AC 50/60 Hz
 Power consumption: < 50 W
 Operating condition: Temperature 0 to 45° C
 Relative humidity < 80%
 Drive weight: 2.0 kg
 IP rating: IP 31

Acuflo D1X-01 is a high performance, fully programmable variable speed peristaltic pump drive which delivers consistent and repeatable flow rates with suitable pump head ACU12-60/ACU12-500/ACU12-1000. The pump provides flow rates from 10ml/min up to 60 ml, 500 ml or 1000ml/min for single channel. The pump utilizes high-torque DC Geared motor as drive delivering precise flow rates. The front control panel has speed , direction and timer interface .

Application :

- Fluids sampling or testing
- Laboratory
- Industrial /process
- Precise dosing in biotech & pharmaceutical
- Dispensing and filling fluids
- Other fluids transfer



Peristaltic Pump



Acuflo D200 is a high performance, fully programmable variable speed peristaltic pump drive which delivers consistent and repeatable flow rates with suitable pump head MF1515, MF2515. The pump provides flow rates from 0.1 to 2280 ml / min for single channel. The pump utilizes high-torque DC Geared motor as drive delivering precise flow rates. The front control panel has speed control, direction control.

Application :

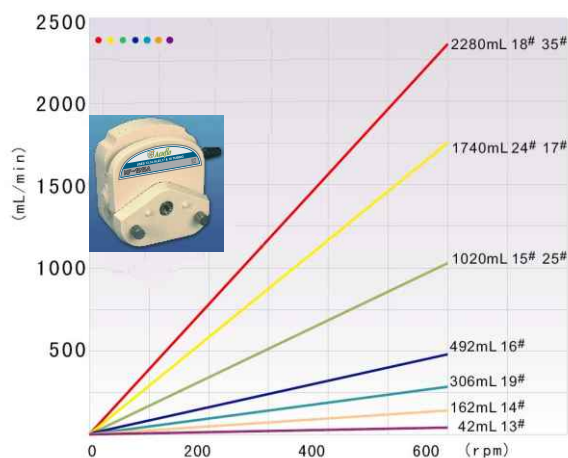
- Fluids sampling or testing
- Laboratory
- Industrial /process
- Precise dosing in biotech & pharmaceutical
- Dispensing and filling fluids
- Other fluids transfer

Specifications

Speed: 1 to 600 rpm, reversible
 max Heads : 2 numbers 120 degree offset
 Speed precision: ± 1 RPM
 flow rate : 0.1 to 2280 ml / min
 Set point control: 10-turn potentiometer
 Control: Start/stop and cw/ccw control
 Analog interface: speed control (Optional)
 Applicable pump heads: MF1515, MF2515

Power supply: AC 95- 256 AC 50/60 Hz
 Power consumption: < 50 W
 Operating condition: Temperature 0 to 45° C
 Relative humidity < 80%
 Drive weight: 5.3 kg
 IP rating: IP 31
 Dimensions (L x W x H): 330 mm x 142 mm x 172 mm

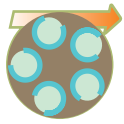
Flow rate chart with Mf1515 head



DesignInnova
 Innovation in design



(A Unit of Arrow weighing System Pvt. Ltd.)
 A-12 Naraina Industrial Area Phase 1, New Delhi 110028 (India)
 Ph: +91-11-45588233, +91-11-25705783 fax:+91-11-25791641 ,
 Email : designinnova@gmail.com , sales@designinnova.com

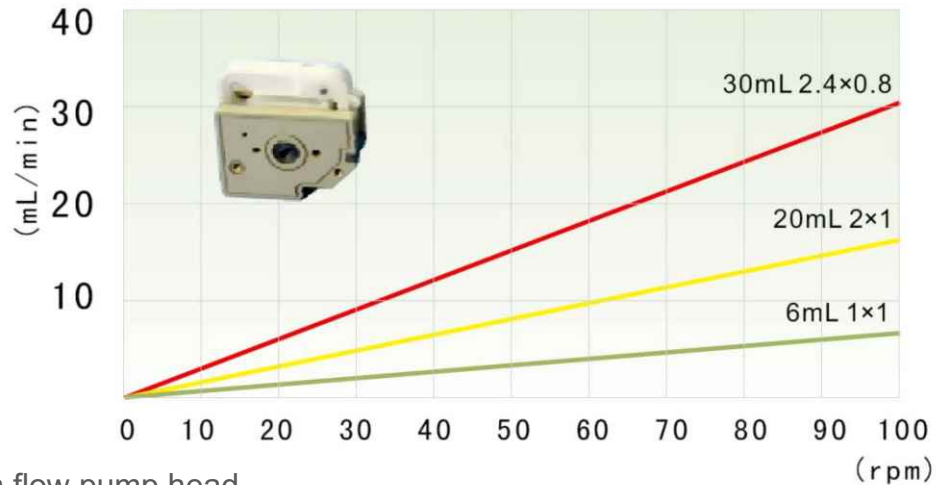


Flow rate

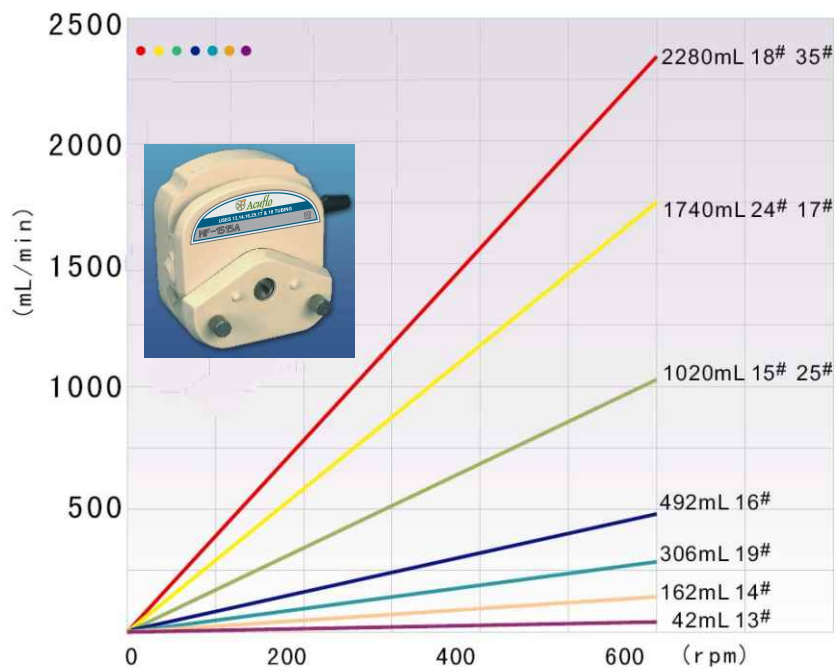
www.designinnova.com

Peristaltic Pump

Low flow Pump head



Medium flow pump head



DesignInnova
Innovation in design



(A Unit of Arrow weighing System Pvt. Ltd.)
A-12 Naraina Industrial Area Phase 1, New Delhi 110028 (India)
Ph: +91-11-45588233, +91-11-25705783 fax: +91-11-25791641 ,
Email : designinnova@gmail.com , sales@designinnova.com

Peristaltic Pump



Acuflo D605DXB is a high performance, fully programmable variable speed peristaltic pump drive with BLDC motor which delivers consistent and repeatable flow rates with suitable pump head MF1515, MF2515. The pump provides flow rates from 5 to 2280 ml / min for single channel. The pump utilizes high-torque DC Geared motor as drive delivering precise flow rates. The front control panel has speed control, direction control.

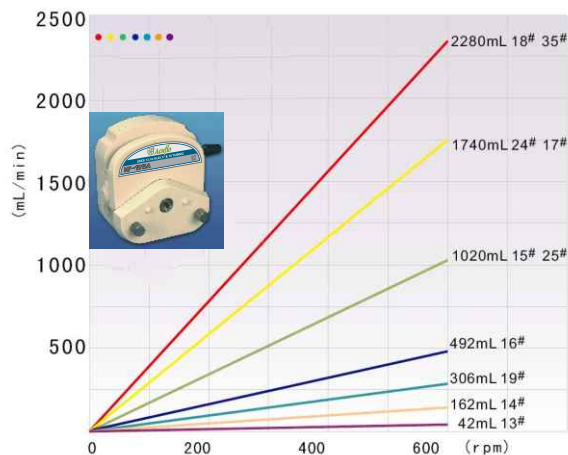
Application :

- Fluids sampling or testing
- Laboratory
- Industrial /process
- Precise dosing in biotech & pharmaceutical
- Dispensing and filling fluids
- Other fluids transfer

Specifications

Speed: 5 to 600 rpm, reversible
 max Heads : 2 numbers 120 degree offset
 Speed precision: ± 1 RPM
 flow rate : 5 to 2280 ml / min
 Set point control: keys / jog dial
 Control: Start/stop and cw/ccw control
 Analog interface: speed control (Optional)
 Applicable pump heads: MF1515, MF2515
 Power supply: AC 95- 256 AC 50/60 Hz
 Power consumption: < 60 W
 Operating condition: Temperature 0 to 45° C
 Relative humidity < 80%
 Drive weight: 5.5 kg
 IP rating: IP 31
 Dimensions (L x W x H): 257 mm x 320 mm x 200 mm

Flow rate chart with Mf1515 head



DesignInnova
 Innovation in design



(A Unit of Arrow weighing System Pvt. Ltd.)
 A-12 Naraina Industrial Area Phase 1, New Delhi 110028 (India)
 Ph: +91-11-45588233, +91-11-25705783 fax:+91-11-25791641 ,
 Email : designinnova@gmail.com , sales@designinnova.com



Silicone Tubing

www.designinnova.com

Peristaltic Pump

Tubes

Platinum-Cured Silicon Tubing

- Slightly greater clarity, smooth surface,
- Low protein binding levels,
- Fewer potential leach able
- Ideal for pharmaceutical and biotechnology use,
- Suitable temperature range 51 - 238°C







Peroxide-Cured Silicone Tubing

- Greater Physical Compression capability
- Slightly clarity,
- Smooth surface,
- Economical, longer tubing life,
- Suitable temperature range -51 - 238°C

Medium flow rates tubing

Tubing Sizes	13#	14#	19#	16#	25#	17#	18#	15#	24#	35#	36#
Tubing cross sections (1:1)											
Wall thickness (mm)	1.6							2.5			
Inner diameter (mm)	0.8	1.6	2.4	3.1	4.8	6.4	7.9	4.8	6.4	7.9	9.6
Maximum pressure (Mpa)	Continuous				0.17	0.14	0.10	0.07	0.17		0.14
	Intermittent				0.27	0.24	0.14	0.10	0.27		0.24

Low flow rates tubing

Tubing Sizes		0.5×0.8	2.4×0.8	1×1	2×1	3×1	4.8×1
Tubing cross sections (1:1)							
Wall thickness (mm)		0.8		1.0			
Inner diameter (mm)		0.5	2.4	1.0	2.0	3.0	4.8
Maximum pressure (Mpa)	Continuous	0.1					
	Intermittent	0.1					



DesignInnova
Innovation in design



(A Unit of Arrow weighing System Pvt. Ltd.)
A-12 Naraina Industrial Area Phase 1, New Delhi 110028 (India)
Ph: +91-11-45588233, +91-11-25705783 fax: +91-11-25791641 ,
Email : designinnova@gmail.com , sales@designinnova.com

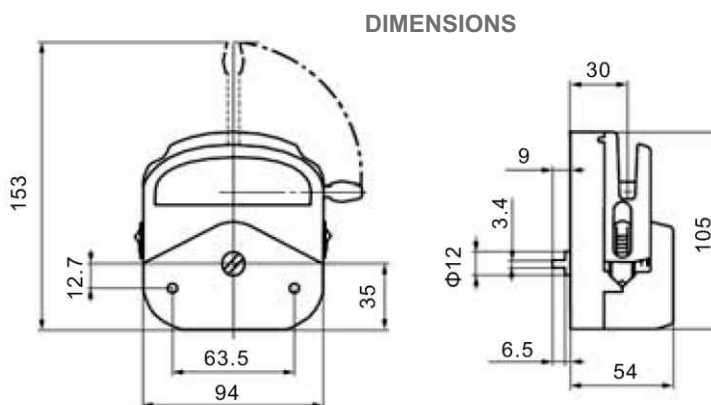


MF Series

www.designinnova.com

Peristaltic Pump

Medium Flow Rates



MF series pump heads are designed for medium flow rates with fixed occlusion. The pump head housing is made up of PSF with SS three roller rotor assembly to adapt different size tubing for wide flow rates. MF series pumps heads are suitable for tubing with 1.6 mm and 2.5mm wall thickness.

Features

- Single or multiple stacking of pump heads.
- 3-roller design.
- Easy tube loading mechanism, and automatic tube retention.
- Pump head Suitable for several tubing sizes for a wide flow range.
- The SS rotor for greater durability and chemical resistance.
- Reduced tube wear: pump head housing made up of PSF which has stable performance and high temperature resistance (150 °C)

SPECIFICATIONS

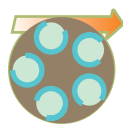
TYPE	FLOW RATE(mL/min)	MAXIMUM RPM	TUBING	HOUSING	ROLLER
MF-1515	0.06-2280	0-600	#13,14,19,16, #17,18,25	PSF	3 ROLLER SS RULON J
MF-1515X	0.06-2280				
MF-2515	1.7-1740		#15,24,35,36		
MF-2515X	1.7-3300				



DesignInnova
Innovation in design



(A Unit of Arrow weighing System Pvt. Ltd.)
A-12 Naraina Industrial Area Phase 1, New Delhi 110028 (India)
Ph: +91-11-45588233, +91-11-25705783 fax:+91-11-25791641 ,
Email : designinnova@gmail.com , sales@designinnova.com



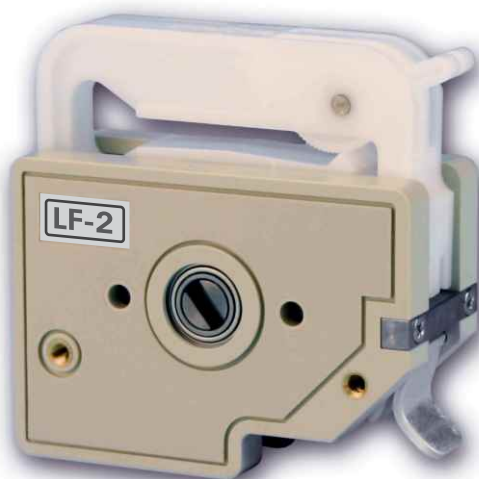
LF Series

Low Flow Rates low pulsation

www.designinnova.com

Peristaltic Pump

Multi - channel Pump Head

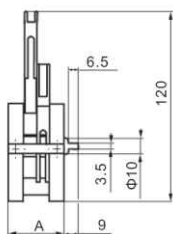
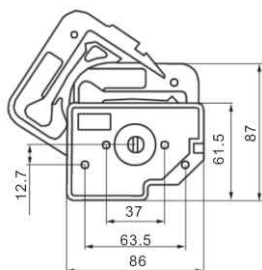


LF series pump heads are designed for small flow rates with minimal pulsation in flow, multi-channel fluids transfer. The pump head consists of base, multi roller rotor assembly and easily detachable cartridge unit with adjustable Occlusion to adapt different tubing wall thickness & variation .

Features

- Multi - channel transfer.
- 6-roller and 10-roller pump heads reduce pulsation of flow.
- Detachable Cartridges and base and Easy tube loading mechanism.
- Cartridges Suitable for several tubing sizes for a wide flow range.
- Adjustable Occlusion to adapt different tubing wall thickness & variation.
- Reduced tube wear: The roller is made up of RULON J & pump cartridge contact surface is made up of POM. (Long life & self lubricated)

DIMENSIONS



SPECIFICATIONS

SPECIFICATIONS					
TYPE	LF - 1	LF - 2	LF - 4	LF - 6	LF - 8
CHANNELS	1	2	4	6	8
FLOW RATE(mL/min) 0.1-100 RPM	6 ROLLERS		0.006 - 30.00 (per channel)		
	10 ROLLERS		0.006 - 24.00 (per channel)		
TUBING (mm)	ID ≤ 2.4mm WALL THICKNESS 0.5 -1.0mm				
CARTRIDGES MAT.	POM				
ROLLER MAT.	SS RULON J				
DUTY	CONTINUOUS				
PRESSURE	UP TO 22 psi				



DesignInnova
Innovation in design



(A Unit of Arrow weighing System Pvt. Ltd.)

A-12 Naraina Industrial Area Phase 1, New Delhi 110028 (India)

Ph: +91-11-45588233, +91-11-25705783 fax:+91-11-25791641 ,

Email : designinnova@gmail.com , sales@designinnova.com