



DRIPPER



More Crop per Drop®





The best bottomline is a farmer's smile.



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J-SC PC-Plus® Emitter



Product Design Registration No: 183476

Features & Benefits



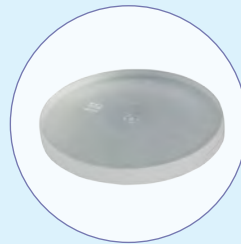
Take Apart, Self Cleaning Pressure Compensating (SCPC) Online Emitter

Take apart feature allows easy opening and cleaning of the emitter.



Clog Resistant, Wide Labyrinth

Strong turbulent flow in the labyrinth helps for continual flushing and cleaning.



Precision Pressure Compensation

High quality injection moulded liquid silicone diaphragm ensures precision in pressure compensation helps to maintain high discharge uniformity.



Barbed Inlet with Narrow Inlet Filter

Barbed inlet suitable to connect directly on 4mm extension tube or can be installed on polytube. Cross shaped inlet filters prevents entrance of most of the impurities.



Extended Outlet

For connection of 4mm ID extension tubing for right placement of water with multi-outlet connectors



Wide Pressure Compensating Range

Pressure regulation range 0.8-3kg/cm² pressure (11.38 to 42.66 psi)



Optional Anti-bug Cap.

Prevents entry of ants/bugs inside the emitter.



Color Coded Cap

Color coded cap facilitates easy identification of emitter flow rate.

J-SC PC-Plus® Emitter

Additional Features

- **No Environmental and Chemical Effects** : UV stabilized does not have any environmental effects. Resistant to chemicals used in agriculture.
- **Quality Comes First** : Each batch passes through stringent quality tests to ensure efficient and trouble free performance for long period. Conforming to Indian Standard IS 13487 and International Standard ISO 9260.

Applications

- Recommended for open field application like orchards, fruit crops, vegetables, etc.
- Suitable for nurseries, pot irrigation & greenhouse irrigation.
- Recommended to use where section size is large and longer lateral length of run is required.
- Recommended for undulating terrain & steep slopes.
- Recommended to use in problematic water condition where cleaning of emitter is required.

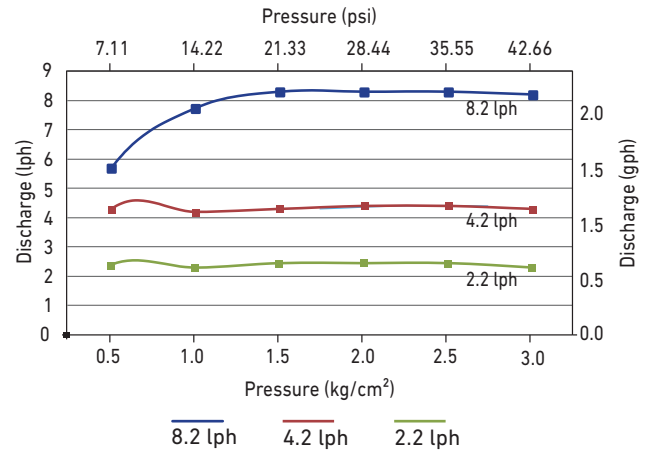
Specifications

Discharge		Color of cap & insert	Emitter exponent (x)	Flow coefficient (k)	Coeff. of mfr. variation, CVm
(lph)	(gph)				
2.2	0.58	Yellow	0.04	2.2	4
4.2	1.11	Black	0.03	4.2	3
8.2	2.16	Blue	0.08	8.2	3.5

Flow equation $q = kH^x$, q = Discharge, lph, H = Pressure head, kg/cm^2 , k = Flow coefficient, x = Emitter exponent.

- Recommended punch size - 2.9 mm

Performance Graph



Note: Tested under standard test conditions.

Operating Specifications

- Maintain the operating pressure within the pressure regulating range.
- Always use 'Turbo Key Spanner' to open and close the dripper. Close the dripper properly.
- Filtration recommendation 130 micron or less. Actual quality of filtration can be decided by quality of source water.
- Please refer to our "Maintenance Manual" for more details.

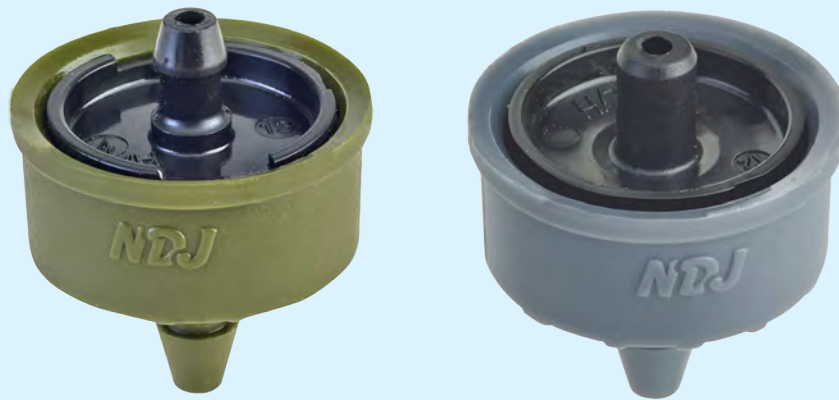
Ordering Specifications

JSCPC	XX
	Discharge (lph)
	02
	04
	08

Example: JSCPC02 - This code represents J-SC-PC-Plus® Emitter having 2.2 lph discharge.



Click Tif HD- PC & PCNL

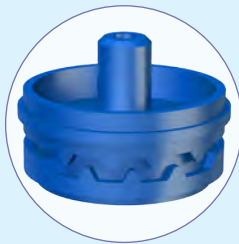


Features & Benefits



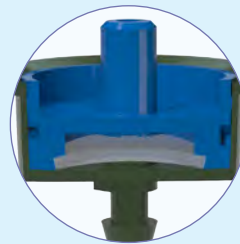
Factory Sealed, Pressure Compensating Emitter

Available with two options,
- Basic Pressure Compensating, PC, (Green housing),
- Pressure Compensating Non-Leakage, PCNL (Grey housing).



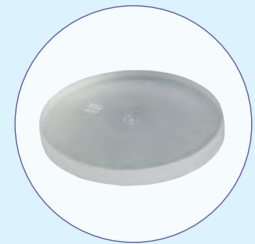
Clog Resistant, Wide Labyrinth

Strong turbulent flow in the labyrinth helps for continual flushing and cleaning.



Dynamic Self Cleaning Mechanism

Dynamic movement of diaphragm retracts dynamically to throw away particles which are blocking the emitter.



Precision Pressure Compensation

High quality injection moulded liquid silicone diaphragm ensures precision in pressure compensation helps to maintain high discharge uniformity.



Barbed Inlet with Narrow Inlet Filter

Barbed inlet suitable to connect directly on 4mm extension tube or can be installed on Polytube. Precision inlet filters prevents entrance of most of the impurities.



Extended Outlet

Available in two options,
- Barbed outlet - For connection of 3 mm ID extension tubing for right placement of water.
- Tapered outlet - For connection of multi outlet connectors or anti-bug cap.



Wide Pressure Compensating Range

Pressure regulation range 0.5 - 4 kg/cm² pressure (7.11 to 56.88psi)



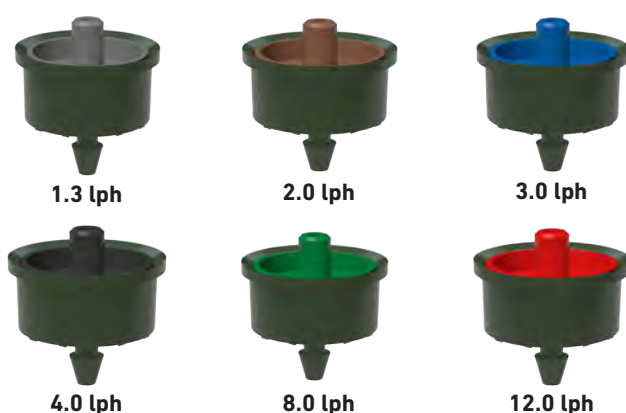
Optional Anti-bug Cap

Prevents entry of ants/bugs inside the emitter.

Click Tif - PC & PCNL

Additional Features

- **No Environmental and Chemical Effects** : UV stabilised does not have any environmental effects. Resistant to chemicals used in agriculture.
- **Assured Quality** : Conforming to Indian Standard IS13487 and International Standard ISO 9260.
- **Excellent CVm, Manufacturer's Coefficient of Variation:** Manufacturing coefficient of variation, $CVm \leq 4\%$ ensures high field emission uniformity.
- **Color Coded Cap** : Color coded cap facilitates easy identification of emitter flow rate.



Applications

- For orchards, vineyards, greenhouses, nurseries and landscape.
- For pulse irrigation and irrigation in soilless conditions
- Prevents surplus drainage in low places (PCNL model)
- For areas with harsh topographical conditions.
- Subsurface installation protects dripper from animal damage
- For irrigation of pot-plants with single, two, four or multiple outlets.

Operating Specifications

- Maintain the operating pressure within the pressure regulating range.
- While using PCNL model, make sure that static pressure at the dripper shall not be more than closing pressure i.e. 0.3 kg/cm².
- Shall be used with "Lateral Leakage Prevention Device (LLPD)" for static head more than closing pressure.
- Filtration recommendation 130 micron or less. Actual quality of filtration can be decided by quality of source water.
- For multiple outlets through single dripper, use multioutlet connector alongwith stake dripper.
- Please refer to our "Maintenance Manual" for more details.

Specifications

Discharge		Color of cover	Emitter exponent (x)	Flow coefficient (k)	Range of pressure regulation, kg/cm ²
(lph)	(gph)				
1.3	0.34	Grey	0.04	1.3	0.5 - 4.0
2.0	0.5	Brown	0.03	2.0	0.5 - 4.0
3.0	0.8	Blue	0.03	3.0	0.5 - 4.0
4.0	1.0	Black	0.04	4.0	0.5 - 4.0
8.0	2.1	Green	0.04	8.0	0.5 - 4.0
12.0	3.1	Red	0.04	12.0	0.5 - 4.0

Flow equation $q = kH^x$, q = Discharge, lph, H = Pressure head, kg/cm², k = Flow coefficient, x = Emitter exponent.

Note: Color of housing: Green - For PC option, Grey - For PCNL option

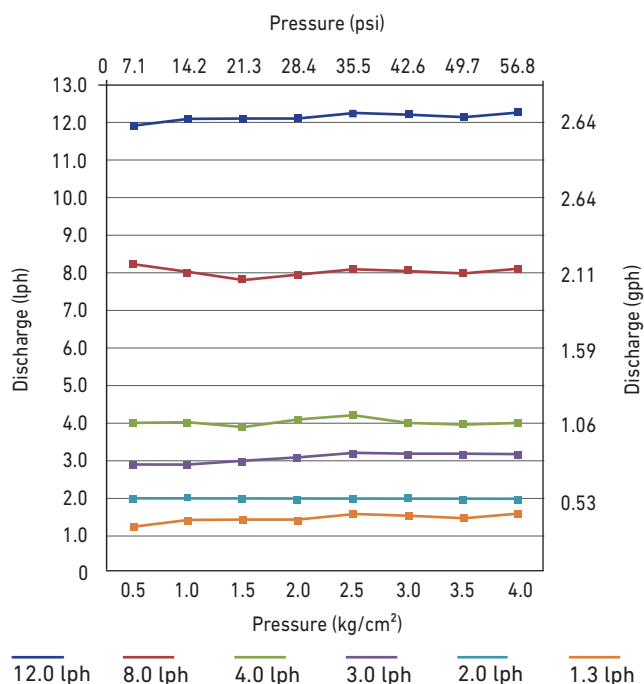
- For Click Tif - PCNL model

Opening Pressure - 0.8 kg/cm²

Closing Pressure - 0.3 kg/cm²

- Recommended punch size - 2.5 mm (Code- ITC)

Performance Graph



Note: Tested under standard test conditions.

Ordering Specifications

Taper lock		Barb outlet 3/5		Body	Flow
PC Green housing	PC CNL Grey housing	PC Green housing	PC CNL Grey housing	color	rate lph
CTPC13T	CTNL13T	CTPC13B	CTNL13B	Grey	1.3
CTPC20T	CTNL20T	CTPC20B	CTNL20B	Brown	2
CTPC30T	CTNL30T	CTPC30B	CTNL30B	Blue	3
CTPC40T	CTNL40T	CTPC40B	CTNL40B	Black	4
CTPC80T	CTNL80T	CTPC80B	CTNL80B	Green	8
CTPC12T	CTNL12T	CTPC12B	CTNL12B	Red	12

Micro Flapper



Features & Benefits



Sealed, Pressure Compensating Online Emitter

Sealed and compact emitter offers ease of installation



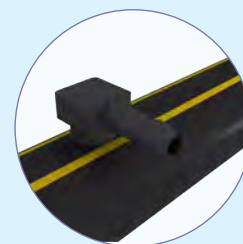
Unique Self Cleaning Mechanism

Unique self cleaning design, flow path expands in case of blockages. Thus flushes off trapped dirt. This reduces the risk of clogging and minimizes maintenance cost drastically



Precision Pressure Compensation

Precision moulded liquid silicone rubber diaphragm ensures pressure compensation, uniform water application and long lasting high quality performance



Industries Most Compact PC Emitter

Emitter remain flushed to the lateral. Does not fall down while recoiling.



Extended Barbed Outlet

Barbed extended outlet suitable for extension tube of 3.2 mm ID (1/8" ID)



Wide Pressure Compensating Range

Pressure regulation range 0.6-4 kg/cm² pressure (8.53 to 56.88 psi)



Color Coded

Color coded emitter facilitates easy identification of flow rate



Excellent Cvm, Manufacturer's Coefficient of Variation

Manufacturing coefficient of variation, Cvm ≤ 5% ensures high field emission uniformity

Micro Flapper

Additional Features

- **No Environmental and Chemical Effects** : UV stabilized does not have any environmental effects. Resistant to chemicals used in agriculture.
- **Assured Quality** : Conforming to Indian Standard IS 13487 and International Standard ISO 9260.

Applications

- For orchards and vineyards, greenhouses, nurseries, landscape etc.
- For areas with harsh topographical conditions.
- For irrigation of pot-plants with extension tube.
- Recommended to use where longer length of lateral is required.

Operating Specifications

- Maintain the operating pressure within the pressure regulating range.
- Filtration recommendation 130 micron or less. Actual quality of filtration can be decided by quality of source water.
- Please refer to our "Maintenance Manual" for more details.

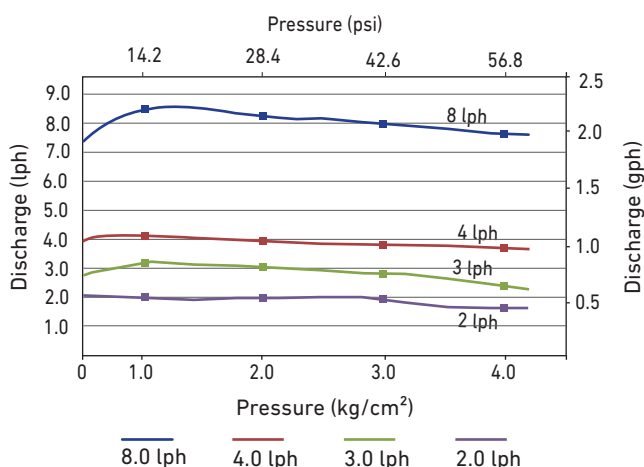
Specifications

Discharge		Color	Emitter exponent (x)	Flow coeff. (k)	Coeff. of mfg. variation, CVm	Pressure Regulation Range, kg/cm ²
lph	gph					
2.0	0.53	Brown	0.05	2.0	3.0	0.6 - 4.0
3.0	0.79	Gray	0.05	3.0	4.0	0.6 - 4.0
4.0	1.06	Black	0.05	4.0	2.5	0.6 - 4.0
8.0	2.11	Green	0.05	8.0	3.5	0.6 - 4.0

Flow equation $q = kH^x$, q = Discharge, lph, H = Pressure head, kg/cm², k = Flow coefficient, x = Emitter exponent.

- Recommended punch size - 3.9 mm

Performance Graph



Note: Tested under standard test conditions.

Ordering Specifications

MF	X
	Discharge (lph)
	2
	3
	4
	8

Example: MF4 - This code represents Micro Flapper emitter of flow 4 lph (1 gph).



J-Turbo Key Super



Features & Benefits



Reliable, Consistent, Long lasting and Proven dripper since 30 + years.



Jain Turbo Key Super uses innovative labyrinth which ensures clog free performance.



Best Cv in the category of openable drippers. Unmatched performance in the industry.



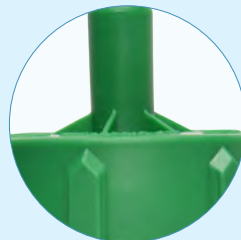
Dripper construction allows easy to open, clean and reclose.



Each dripper has an inlet filter that prevents entry of large particles. It's ribbed based makes it robust & durable.



Unique outlet design to prevent spurting of water flow.



Raised outlet facilitates connection of extension tubing and also prevents direct entry of bugs into the dripper.



Made of engineering polymer to withstand adverse conditions including harsh weather and resistance to chemical and fertilizers.

J-Turbo Key Super

Operating Specifications

- Nominal operating pressure 1 kg/cm².
- Always use 'Turbo Key Super Spanner' to open and close the dripper. Close the dripper properly.
- Filtration recommendation 100 micron or less. Actual quality of filtration can be decided by quality of source water.

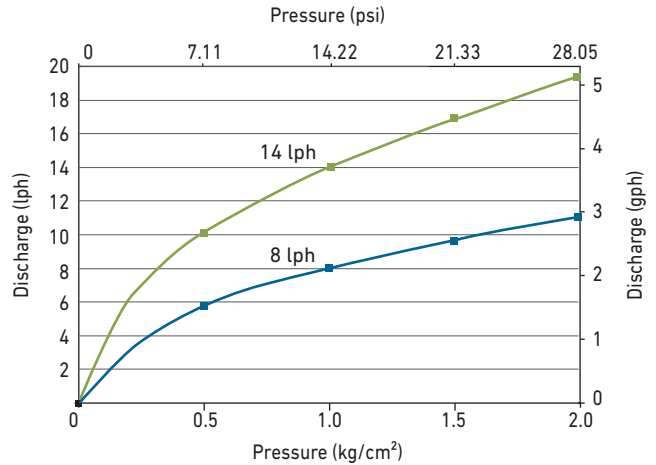
Specifications

*Discharge		Color of cap & insert	Emitter exponent (x)	Flow coefficient (k)	Coeff. of mfg. variation, CVm
lph	gph				
8.0	2.11	Blue	0.48	8.0	3
14.0	3.70	Green	0.48	14.0	3

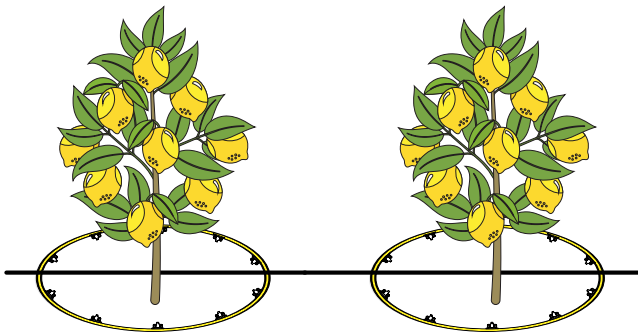
* At an operating pressure of 1 kg/cm² (14.2 psi).

- Flow equation $q = kH^x$, q = discharge, lph, H = Pressure Head, kg/cm², k = flow coefficient, x = Emitter exponent.
- Recommended punch size - 2.9 mm

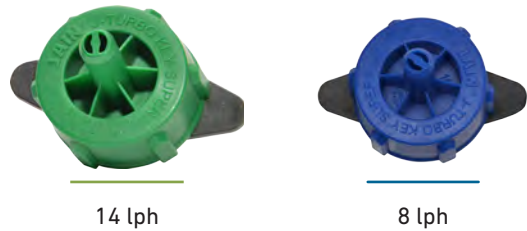
Performance Graph



Note: Tested under standard test conditions.



Loop type installation using Jain Turbo Key Super



J-Turbo Key Plus Dripper



Features & Benefits



Take Apart, Turbulent Flow, Online Emitter

Offers ease in maintenance and inspection.



Barbed Inlet with Narrow Cross Shaped Inlet Filter

Barbed inlet suitable to connect directly on 4 mm extension tube or can be punched on polytube. Cross shaped inlet filters prevents entrance of most of the impurities.



Extended Outlet

For connection of 4 mm ID extension tubing for right placement of water with multi-outlet connection



Optional Anti-bug Cap.

Prevents entry of ants/bugs inside the emitter.



Color Coded Cap

Color coded cap facilitates easy identification of emitter flow rate.



Proven Performance

Wide cross sectional area makes the dripper clog resistant.

J-Turbo Key Plus Dripper

Additional Features

- **Quality Comes First** : Each batch passes through stringent quality tests to ensure efficient and trouble free performance for long period. Conforming to Indian Standard IS 13487 and International Standard ISO 9260
- **No Environmental and Chemical Effects:** UV stabilized does not have any environmental effects. Resistant to chemicals used in agriculture.

Applications

- For orchards and vineyards, greenhouses, nurseries, landscape etc.
- Recommended to use in problematic water condition where opening and cleaning of the emitter is needed.

Operating Specifications

- Nominal operating pressure 1 kg/cm². Can be used for other pressure ratings (lower/higher) after consulting company representative and with due care for filtration.
- Always use 'Turbo Key Spanner' to open and close the dripper. Close the dripper properly.
- Filtration recommendation 130 micron or less. Actual quality of filtration can be decided by quality of source water.
- Please refer to our "Maintenance Manual" for more details.

Specifications

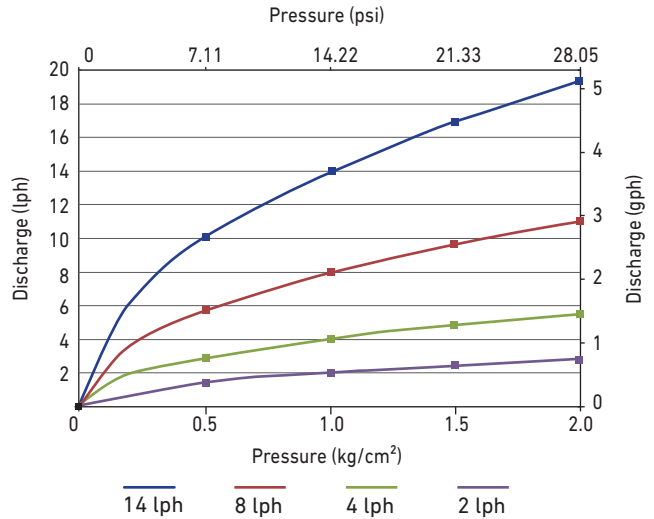
*Discharge		Color of cap & insert	Emitter exponent (x)	Flow coefficient (k)	Coeff. of mfg. variation, CVm
lph	gph				
2.0	0.53	Yellow	0.48	2.0	3
4.0	1.06	Black	0.48	4.0	3
8.0	2.11	Blue	0.48	8.0	3
14.0	3.70	Green	0.48	14.0	3

* At an operating pressure of 1kg/cm² (14.2 psi).

Flow equation $q = kH^x$, q = discharge, lph, H = Pressure Head, kg/cm², k = flow coefficient, x = Emitter exponent.

- Recommended punch size - 2.9 mm

Performance Graph



Note: Tested under standard test conditions.

Ordering Specifications

JTKP	XX
	Discharge (lph)
	02
	04
	08
	14

Example: JTKP02 - This code represents J-Turbo Key Plus™ Dripper having 2 lph discharge..



Jain Emitter



Product Design Registration No: 183476

Features & Benefits



Take Apart, Turbulent Flow, Online Emitter

Offers ease in maintenance and inspection.



Barbed Inlet with Narrow Cross Shaped Inlet Filter

Barbed inlet suitable to connect directly on 4 mm extension tube or can be punched on polytube. Cross shaped inlet filters prevents entrance of most of the impurities.



Proven Performance

Wide cross sectional area makes the dripper clog resistant.



Quality Comes First

Each batch passes through stringent quality tests to ensure efficient and trouble free performance for long period. Conforming to Indian Standard IS 13487 and International Standard ISO 9260.



Color Coded Cap

Color coded cap facilitates easy identification of emitter flow rate.



No Environmental and Chemical Effects

UV stabilized does not have any environmental effects. Resistant to chemicals used in agriculture.

Jain Emitter

Applications

- For orchards and vineyards, greenhouses, nurseries, landscape etc.
- Recommended to use in problematic water condition where opening and cleaning of the emitter is needed.

Specifications

Discharge		Color of cap & insert	Emitter exponent (x)	Flow coeff. (k)	Coeff. of mfg. variation, CVm
lph	gph				
2.0	0.53	Yellow	0.48	2.0	3
4.0	1.06	Black	0.48	4.0	3
8.0	2.12	Blue	0.48	8.0	3
14.0	3.70	Green	0.48	14.0	3

* At an operating pressure of 1 kg/cm² (14.22 psi).

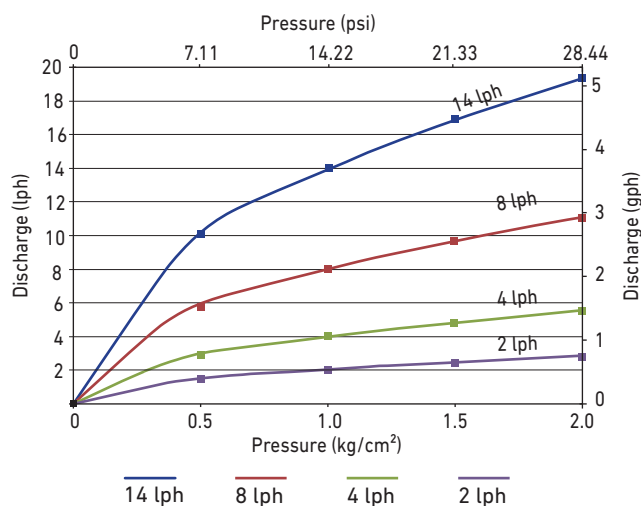
Flow equation $q = kH^x$, q = Discharge, lph, H = Pressure head, kg/cm², k = Flow coefficient, x = Emitter exponent.

- Recommended punch size - 2.9 mm

Operating Specifications

- Nominal operating pressure 1 kg/cm². Can be used for other pressure rating after consulting company representative and with due care for filtration.
- Always use 'Turbo Key Spanner' to open and close the dripper. Close the dripper properly.
- Filtration recommendation 130 micron or less. Actual quality of filtration can be decided by quality of source water.
- Please refer to our "Maintenance Manual" for more details.

Performance Graph



Note: Tested under standard test conditions.

Ordering Specifications

JE	XX
	Discharge (lph)
	02
	04
	08
	14

Example: JE02 - This code represents Jain Emitter® having 2 lph discharge.



Turbo Seal Emitter



Features & Benefits



Turbulent Flow, Sealed, Online Emitter

Perfect factory sealing minimizes discharge variations and improves performance. Seal can withstand harsh pressure and temperature conditions.



Barbed Inlet with Narrow Cross Shaped Inlet Filter

Barbed inlet suitable to connect directly on 4 mm extension tube or can be punched on polytube. Cross shaped inlet filters prevents entrance of most of the impurities.



Proven Performance

Wide cross sectional area with strong turbulent flow makes the dripper clog resistant.



Prevention of Soil Suction

Protected bottom outlet does not remain in direct contact of soil surface and prevents soil suck back during shutdown of the system.



Quality Comes First

Each batch passes through stringent quality tests to ensure efficient and trouble free performance for long period. Conforming to Indian Standard IS 13487 and International Standard ISO 9260.



Color Coded

Color coded base facilitates easy identification of emitter flow rate.

Turbo Seal Emitter

Additional Features

- No Environmental and Chemical Effects : UV stabilized does not have any environmental effects. Resistant to chemicals used in agriculture.

Applications

- For orchards and vineyards, vegetables, cotton, oil-seeds, greenhouses, nurseries, landscape etc.

Specifications

* Discharge		Color of the base	Emitter exponent (x)	Flow coeff. (k)	Coeff. of mfg. variation, CVm
lph	gph				
2.0	0.53	Yellow	0.44	2.0	3
4.0	1.06	Black	0.44	4.0	3
8.0	2.11	Blue	0.47	8.0	3

* At an operating pressure of 1 kg/cm² (14.22 psi).

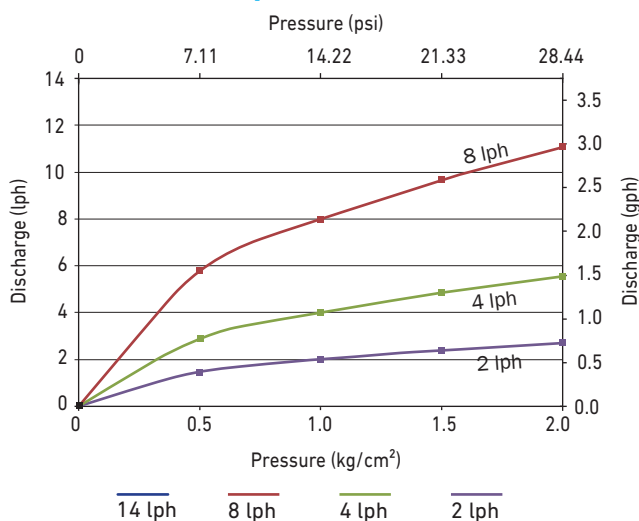
Flow equation $q = kH^x$, q = Discharge, lph, H = Pressure head, kg/cm², k = Flow coefficient, x = Emitter exponent.

- Recommended punch size - 2.9 mm

Operating Specifications

- Nominal operating pressure 1 kg/cm². Can be used for other pressure rating after consulting company representative and with due care for filtration.
- Filtration recommendation 130 micron or less. Actual quality of filtration can be decided by quality of source water.
- Please refer to our "Maintenance Manual" for more details.

Performance Graph



Note: Tested under standard test conditions.

Ordering Specifications

TSE	XX
	Discharge (lph)
	02
	04
	08

Example: TSE02 - This code represents Turbo Seal® Emitter having 2 lph discharge.



Mini Inline Emitter



Features & Benefits



Proven Performance

Wide cross sectional area with strong turbulent flow makes the dripper clog resistant.



Perfect Sealing

Factory sealing minimizes discharge variations and improves performance. Seal can withstand harsh pressure and temperature conditions.



Barbed Inlet and Outlet with Narrow Cross Shaped Inlet Filter

Barbed inlet and outlet suitable to connect to 4 mm extension tube. Cross shaped inlet filters prevents entrance of most of the impurities.



Prevention of Soil Suction

Protected bottom outlet does not remain in direct contact of soil surface and prevents soil suck back during shutdown of the system.



Turbulent Flow, Sealed, Online Emitter with Inline Features

Specially designed sealed emitter with facility to connect the emitters to each other.



Color Coded

Color coded base facilitates easy identification of emitter flow rate.

Mini Inline Emitter

Additional Features

- **Facilitates perfect looping of the emitters** : Connected emitters makes a stable loop around large trunk
- **Assured Quality** : Each batch passes through stringent quality tests to ensure efficient and trouble free performance for long period. Conforming to Indian Standard IS 13487 and International Standard ISO 9260. trees and avoids dispositioning of the emitter.
- **No Environmental and Chemical Effects** : UV stabilized does not have any environmental effects. Resistant to chemicals used in agriculture.

Applications

- Recommended for fruit orchards requiring multiple drippers around the trunk of the tree, to cover widespread root zone.

Specifications

*Discharge		Color of the base	Emitter exponent (x)	Flow coeff. (k)	Coeff. of mfg. variation CVm
lph	gph				
2.0	0.53	Yellow	0.44	2.0	3
4.0	1.06	Black	0.44	4.0	3
8.0	2.11	Blue	0.47	8.0	3

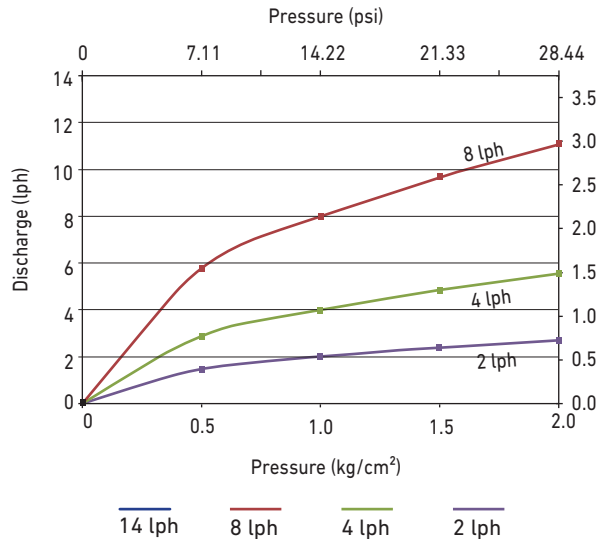
* At an operating pressure of 1 kg/cm² (14.22 psi).

- Recommended punch size - 2.9 mm

Operating specifications

- Nominal operating pressure 1 kg/cm². Can be used for other pressure rating after consulting company representative and with due care for filtration.
- Filtration recommendation 130 micron or less. Actual quality of filtration can be decided by quality of source water.
- Please refer to our "Maintenance Manual" for more details.

Performance Graph



Note: Tested under standard test conditions.

Ordering Specifications

MIL	XX
	Discharge (lph)
	02
	04
	08

Example: MIL02 - This code represents Mini In Line® Emitter having 2 lph discharge.



J-Loc® Emitter



Features & Benefits



Simple Two Piece Take Apart Construction

Two piece design facilitates ease of maintenance.



Latching Insert

Strong latching arrangement helps easy removal of flow path insert. Prevents snap-off under pressure fluctuations.



Facilitates Horizontal as well as Vertical Installation of Emitter

Unique design allows to install emitter in any direction. Vertical installation used for nursery application near the saplings/pots. Horizontal installation facilitates easy retrieval of tubing and can be used for closely spaced crops.



Barbed Outlet

Suitable for 4 mm ID extension tubing to allow correct placement of water flow.



No Environmental and Chemical Effects

UV stabilized does not have any environmental effects. Resistant to chemicals used in agriculture.



Color Coded Insert

Color coded insert facilitates easy identification of emitter flow rate.

J-Loc® Emitter

Other Specification

- **Stringent Quality Checks** : Each batch passes through stringent quality tests to ensure efficient and trouble free performance for long period. Conforming to Indian Standard IS 13487 and International Standard ISO 9260.

Applications

- Recommended for fruit orchards requiring multiple drippers around the trunk of the tree, to cover widespread root zone.

Specifications

Color of the insert	* Discharge		Coeff. of mfg. variation, CVM
	lph	gph	
Yellow	2.0	0.53	5
Black	4.0	1.06	5
Blue	8.0	2.11	5
Green	15.0	3.97	5

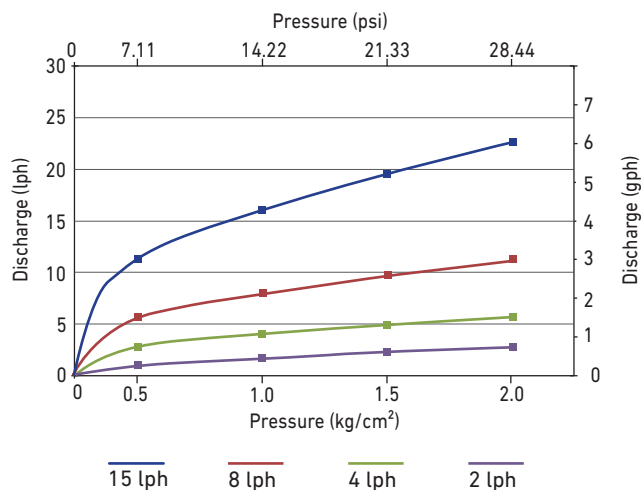
* At an operating pressure of 1kg/cm² (14.22 psi).

- Recommended punch size - 2.9 mm

Operating Specifications

- Nominal operating pressure 1 kg/cm². Can be used for other pressure rating after consulting company representative and with due care for filtration.
- Filtration recommendation 130 micron or less. Actual quality of filtration can be decided by quality of source water.
- Please refer to our "Maintenance Manual" for more details.

Performance Graph



Note: Tested under standard test conditions.

Ordering Specifications

JL	XX
	Discharge (lph)
	02
	04
	08
	15

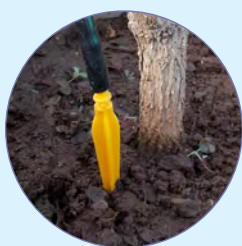
Example: JL04 - This code represents J-Loc® Emitter having 4 lph discharge.



Turbo Stake Dripper

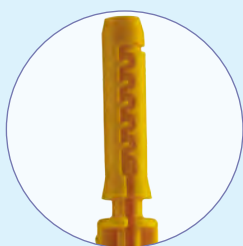


Features & Benefits



Stake with Inbuilt Emitter

Turbulent flow path with stake for correct and stable positioning of the dripper.



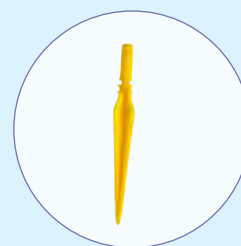
Precise injection moulded flow path

Provides uniform distribution of water when used with the dripper and multi-outlet connectors in pot/bag irrigation.



No Environmental and Chemical Effects

UV stabilized does not have any environmental effects. Resistant to chemicals used in agriculture.



Stringent Quality Checks

Each batch passes through stringent quality tests to ensure efficient and trouble free performance for long period.

Applications

- Suitable for pot irrigation, nurseries, glass/green houses, vegetables, home gardens.

Operating Specifications

- Nominal operating pressure 1 kg/cm². Can be used for other pressure rating after consulting company representative and with due care for filtration.
- When used with dripper and multi-outlet connector, ensure that level difference between the pots/bags shall not be more than 5cm.
- Filtration recommendation 130 micron or less. Actual quality of filtration can be decided by quality of source water.
- Please refer to our "Maintenance Manual" for more details.

Specifications

* Discharge		Color
lph	gph	
1.5	0.40	Yellow
4.0	1.06	Black
8.0	2.11	Blue

* At an operating pressure of 1kg/cm² (15 psi).

Ordering Specifications

TSD	X
	Discharge (lph)
	15 - 1.5
	4 - 4.0
	8 - 8.0

Example: TSD4-This code represents Turbo Stake Dripper having 4 lph discharge.

Vari Flow Dripper



Features & Benefits



Adjustable Flow

Easy to adjust according to changing crops and crop water requirement .



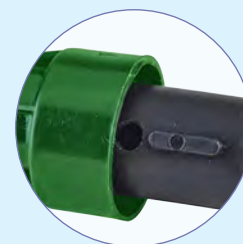
Flow Adjustment from 0 to 50 & 0 to 100 lph

Complete shut off possible when water is not needed. Maximum flow at 1 kg/cm^2 pressure on full opening is 50 lph & 100 lph.



Simple Two Piece Take Apart Construction

Two piece design facilitates ease of maintenance.



Protected Outlet

Protected outlet prevents entrance of sand/soil in desert/sandy soil conditions.

Applications

- Suitable for trees having high water requirement.
- Recommended for sandy soils / desert conditions.
- Can also be used for lower pressure.

Specifications

Code	Maximum Discharge*		Cap Colour
	lph	gph	
VF050	50	13.21	Blue
VF100	100	26.42	Green

* At an operating pressure of 1 kg/cm^2 (14.22 psi).



Labyrinth Stake Elbow



Features & Benefits



Stake with Inbuilt Emitter

Turbulent flow path with stake for correct and stable positioning of the dripper.



Easy to Install Angular Shaped Stake

Prevents tube snap-off and reduces stresses on the tubing.



Precise injection moulded flow path

Provides uniform distribution of water when used with the dripper and multioutlet connectors in pot/bag irrigation.



Uniform Dispersion of Water

Drop split knife helps for water dispersion to cover maximum root zone area.



Special Provision of Inspection Window

Facilitates visual observation of falling droplets.



Multipurpose Utility

Can be used as an independent dripper or with online emitter to divide the flow uniformly.

Labyrinth Stake Elbow

Additional Features

- **No Environmental and Chemical Effects** : UV stabilised does not have any environmental effects. Resistant to chemicals used in agriculture.

Applications

- Suitable for pot irrigation, nurseries, glass/green houses, vegetables, home gardens.

Specifications

Performance Chart - Labyrinth stake elbow when used independently,

Pressure, kg/cm ²	0.5	1.0	1.5	2.0
Discharge, lph	1.5	2.1	2.5	3.0

- Recommended extension tube : 3 mm ID (5mm OD) vinyl tube.

Operating Specifications

When working with multiple outlets

- Minimum recommended working pressure: 1 kg/cm².
- Maximum recommended flow per outlet: 2.0 l/h.
- Minimum recommended flow per outlet:
 - Flat surface and uniform tube length - 0.5 l/h
 - On a slope or uneven elevation - 1.0 l/h
- When used with dripper and multi-outlet connector, ensure that level difference between the pots/bags shall not be more than 5cm.
- Filtration recommendation 130 micron or less. Actual quality of filtration can be decided by quality of source water.
- Please refer to our "Maintenance Manual" for further details.

Recommended Combinations

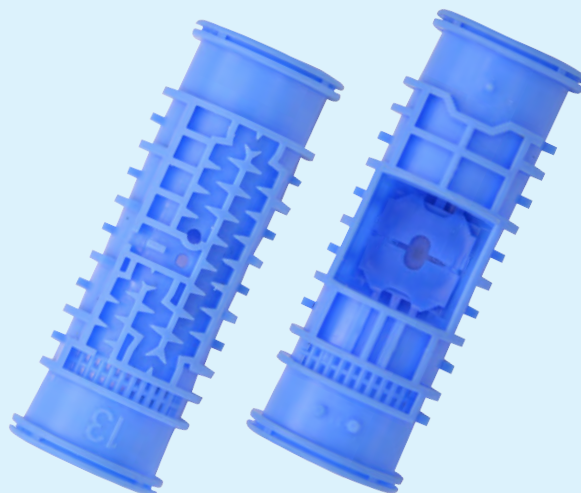
Number of outlets	Nominal discharge, lph					
	1 to 2	2 to 3	3 to 4	4 to 5	5 to 8	8 to 12
2					-	-
3	-				-	-
4	-	-				-
5	-	-				-
6	-	-				
	Only on flat surface and with uniform tube length.					
	For All conditions, including slopes and uneven elevations.					

Ordering Specifications

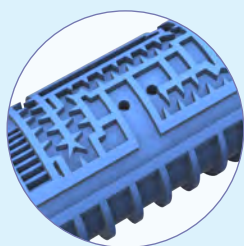
Code	Discharge (lph)
802830J	2.1



Turboline PC[®] Emitter

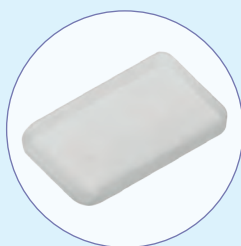


Features & Benefits



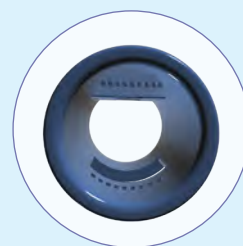
Integral, Cylindrical, Pressure Compensating Dripline

State-of-the-art cylindrical PC (Pressure Compensating) dripper ensures highest durability and excellent performance.



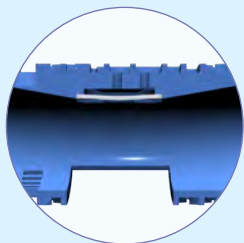
Precision Pressure Compensation

Injection moulded silicone diaphragm ensures precision in pressure compensation helps to maintain high discharge uniformity with diverse water qualities, chemicals and fertilizers.



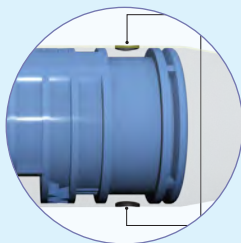
Individual Double Filter

Individual double filter and flushing mechanism for maximal clog resistance and self-cleaning.



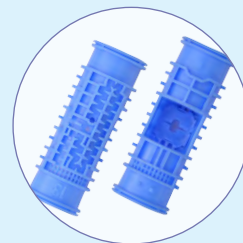
Dynamic Self Cleaning mechanism

Dynamic movement of diaphragm retracts dynamically to throw away particles which are blocking the emitter.



Facility for Multiple Outlet Holes

Facility for multiple outlets which breaks vacuum, prevents sand suction.



Options Available for various sizes as well as discharge rates

16 mm & 20 mm sizes available with different flowrates to fulfil the market demand.

Turboline PC® Emitter

Other Important Features

Manufactured from Special Grade Virgin Plastic Material

Makes emitters durable and gives best environmental stress crack resistance (ESCR).

Excellent CVM, manufacturer's coefficient of variation

Maintains close dimensional tolerances to ensure best field emission uniformity.

Wide Pressure Compensating Range

Pressure regulation starts as low as 0.5 kg/cm² to as high as 4 kg/cm² pressure.

Longer Lateral Lengths

Can run for longer lengths without compromising the uniformity.

Applications

- Ideal for irrigation of closely spaced row crops like sugarcane, cotton, banana, strawberry, floriculture, vegetables and spices.
- Suitable for surface as well as sub-surface irrigation.
- Recommended for undulating terrain & steep slopes and where longer lateral running length is necessary.
- Open field application to maintain high field application efficiency.
- Suitable for low operating pressure/ Gravity feed irrigation system.

Specifications

- **Nominal Discharges** : Turboline PC 16 mm: 1.1, 1.6, 2.2 and 3.5 lph for tubing wall thickness as per pressure class 2.
Turboline PC 20 mm: 0.9, 1.6, 2.2 and 3.8 lph for tubing wall thickness as per pressure class 1.
- **Sizes** : Standard sizes of 16 and 20 mm nominal diameter.
- **Pressure Compensating Range** : 0.5 to 4 kg/cm² (7 to 71 psi).

Operating Specifications

- Maintain the operating pressure within the pressure regulating range.
- Filtration recommendation 130 micron or less. Actual quality of filtration can be decided by quality of source water. Please refer to our "Maintenance Manual" for further details.
- For subsurface application, install vacuum breaker valves on the submain as well as on the collective drain to avoid soil suction during system shutdown.



Turboline PC® Emitter

Technical Specifications - Emitter Technical Specifications for Emitter - Metric

Nominal Discharge lph @ (1kg/cm ²)	Emitter exponent	Flow coefficient	Coeff. of mfg. variation,	Flow path dimensions (mm)			Inlet filter area (mm ²)
	x	k	CVm	Length	Width	Depth	
16 mm							
1.1	0	1.1	2.5	60	0.70	0.98	14.08
1.6	0	1.6	2.5	60	0.78	1.08	14.08
2.2	0	2.2	1.5	60	0.80	1.10	14.08
3.5	0	3.5	4.0	60	1.04	1.32	14.08
20 mm							
0.9	0	0.9	2.5	110	0.74	1.10	7.29
1.6	0	1.6	2.5	87	1.04	1.10	9.20
2.2	0	2.2	3.0	87	1.04	1.30	11.00
3.8	0	3.8	3.0	128	1.00	1.20	14.40

Flow equation $q = kH^x$, q = Nominal Discharge, lph, H = Pressure head, kg/cm², x = Emitter exponent

Note: Above table prepared with tubing 16 mm (wall thickness 0.7 to 0.9 mm) and 20 mm (wall thickness 0.5 to 0.6 mm) and tested under standard test conditions.

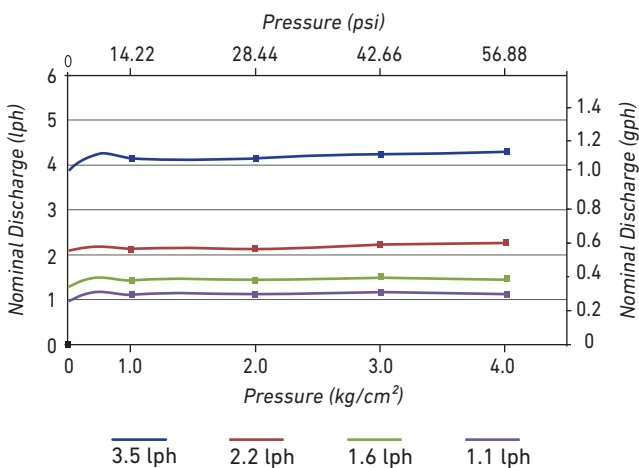
Technical Specifications for Emitter - US

Nominal Discharge gph @ 15 (psi)	Emitter exponent	Flow coefficient	Coeff. of mfgr. variation,	Flow path dimensions (inch)			Inlet filter area (sq. inch)
	x	k	CVm	Length	Width	Depth	
16 mm							
0.29	0	0.290	2.5	2.36	0.028	0.039	0.022
0.42	0	0.423	2.5	2.36	0.031	0.043	0.022
0.58	0	0.581	1.5	2.36	0.031	0.043	0.022
0.93	0	0.925	3.0	2.36	0.041	0.052	0.022
20 mm							
0.24	0	0.238	2.5	4.33	0.023	0.043	0.011
0.42	0	0.423	2.5	3.43	0.041	0.043	0.014
0.58	0	0.581	3.0	3.43	0.041	0.051	0.017
1.00	0	1.004	3.0	5.04	0.04	0.047	0.022

Flow equation $q = kH^x$, q = Nominal Discharge, gph, H = Pressure head, psi, x = Emitter exponent

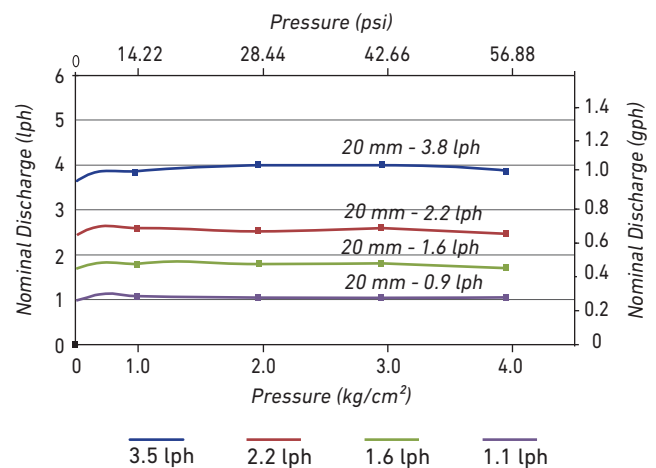
Performance Graph

Jain Turboline PC® 16mm OD (14.2mm ID)



Note: Performance graph for Jain Turboline PC® for wall thickness 0.7 to 0.9mm

Turboline PC® 20mm OD (18mm ID)



Note: Performance graph for Jain Turboline PC® for wall thickness 0.5 to 0.6 mm

Turboline PC® Emitter

Technical Specifications for Emitter with different wall thickness tube

Size	Nominal Flowrate (lph)	Nominal Flow rate as per wall thickness		
	Wall thickness (mm)	0.5 - 0.6	0.7 - 0.9	1.0 - 1.2
12	1.1	1.4	1.3	1.1
	1.6	2.0	2.0	1.30
	2.2	2.8	2.6	2.2
	3.5	3.8	3.6	2.8
	Wall thickness (mm)	0.7 - 0.8	0.9 - 1.1	1.2 - 1.4
16	0.9	1.1	0.9	MTO
	1.6	2.0	1.7	MTO
	2.2	2.6	1.8	MTO
	3.8	4.3	4.0	MTO
	8.0	8.8	8.0	6.0

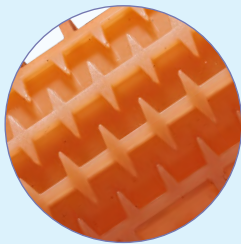
Note: MTO refers to Make To Order



J-Turbo Line®

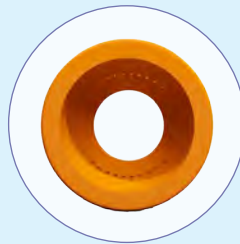


Features & Benefits



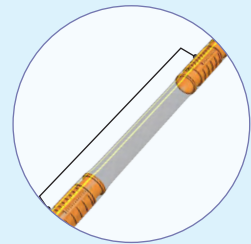
Cylindrical Dripline

Cylindrical dripline with long and wide labyrinth.



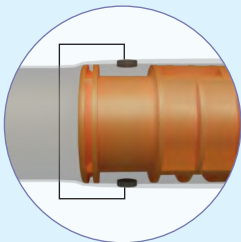
Multiple Inlet Filters

Precision multiple inlet filters placed opposite to each other provides large filtration area and ensures supply of filtered water even if filter is partially plugged due to contamination.



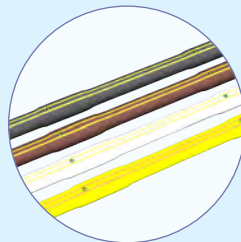
Manufactured with Most Modern, State-Of-the-Art Equipment.

It's computerised continuous online quality control monitors emitter spacing and precision in outlet drilling. Thus ensures reliable quality and consistent performance.



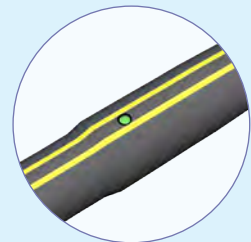
Laser Drilled Multiple Outlet Holes

Precision laser drilled outlet gives uniform and clear opening. Multiple outlets breaks vacuum, prevents sand suction. Standard 2 outlet. Multiple outlets on same orifice bath or on opposite orifice bath can be supplied on demand.



Flexibility in color selection

Black - for agriculture,
Brown - for landscape application,
White - for greenhouse application,
Purple - for reclaimed water application.



Marked with Two Parallel Yellow Stripes 'Twin-Line®'

Our copyright marking of two parallel yellow line 'Twin Line®' assures a best quality product.

Additional Features

Manufactured from Special Grade Virgin Plastic Material

Makes the tubing durable and gives best environmental stress crack resistance (ESCR).

Stringent Quality Checks

Each batch is tested for stringent quality parameter. Conforming to Indian standard IS 13488:2008 and international standard ISO 9261:2004.

Excellent CV_m, manufacturer's coefficient of variation

Maintains close dimensional tolerances to ensure best field emission uniformity.

Twin Blue Line for Class 1 Tube

Special blue colored Twin Line tube is supplied.

Applications

- Ideal for irrigation of closely spaced row crops like sugarcane, cotton, banana, vegetable, strawberry, spices, biofuel crops, floriculture, etc.
- Suitable for surface as well as sub-surface irrigation.
- Recommended to use in greenhouses and nurseries.
- Used for widely spaced horticultural plants like mango, citrus, guava, apple etc. in group spacings.

Specifications

- **Emitter Spacing** : Standard emitter spacing of 20, 30, 40, 50, 60, 75, 90, 100, 120 and 150 cm. Any other emitter spacing and group spacing can be supplied on demand.
- **Sizes** : 16 mm nominal diameter.
- **Discharges** : J-Turbo Line 16 mm : 2.2 and 4 at working pressure of 1 kg/cm² (0.63 and 1.06 gph at 14.2 psi)

Operating Specifications

- Nominal operating pressure 1 kg/cm². Can be used for other pressure ratings (lower/higher) after consulting company representative and with due care for filtration
- Recommended to use specially designed emitting pipe fittings.
- Filtration recommendation 100 micron or less. Actual quality of filtration can be decided by quality of source water. Please refer to our "Maintenance Manual" for further details.
- For subsurface application, install vacuum breaker valves on the submain as well as on the collective drain to avoid soil suction during system shutdown.



J-Turbo Line®

Technical Specifications for Tubing - Metric

Nominal Dia. (mm)	Inside Dia (mm)	Minimum Wall Thickness (mm)				Standard Coil Length (m)
		Class 1	Class 2	Class 3	Class 4	
*16	14.2	0.5	0.7	1.0	1.3	100, 250, 300, 400

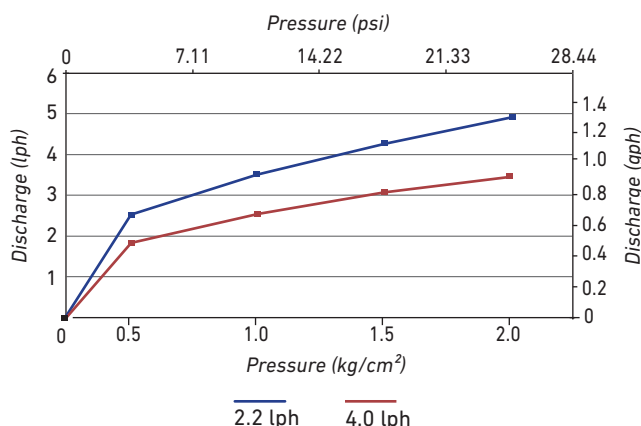
* Dimensions are as per Indian Standard IS 13488:2008.

Technical Specifications for Tubing - US

Nominal Dia. (inch)	Inside Dia (inch)	Minimum Wall Thickness (inch)				Standard Coil Length (ft)
		Class 1	Class 2	Class 3	Class 4	
7/8	7/8	-	0.035	0.039	0.051	328, 820, 984, 1312

Performance Graph- J-Turbo Line

Performance Graph -J-Turbo Line® 16mm ND (14.2mm ID)



Note: Performance graph for J-Turbo Line® as per Pressure Class-2

Technical Specifications for emitter - Metric

*Discharge (lph)	Emitter exponent (x)	Flow coefficient (k)	Coefficient of Mfg. Variation (CVm) ≤	Flow Path Dimensions (mm)			Inlet Filter Area mm ²	Size of Filter Openings (mm x mm)
				Length	Width	Depth		
J-Turbo Line* 16mm ND (14.2mm ID)								
2.2	0.48	2.2	4	125.3	1.02	1.30	14.63	0.35 x 1.9
4.0	0.48	4.0	4	118.1	1.24	1.32	19.00	0.5 x 1.9

Flow equation $q = kH^x$, q = Discharge, lph, H = Pressure head, kg/cm², x = Emitter exponent

Technical Specifications for emitter - US

*Discharge (gph)	Emitter exponent (x)	Flow coefficient (k)	Coefficient of Mfg. Variation (CVm) ≤	Flow Path Dimensions (inch)			Inlet Filter Area inch ²	Size of Filter Openings (inch x inch)
				Length	Width	Depth		
J-Turbo Line® 16mm ND (14.2mm ID)								
0.63	0.48	0.177	4	4.93	0.040	0.051	0.023	0.014 x 0.075
1.06	0.48	0.296	4	4.93	0.049	0.052	0.030	0.020 x 0.075

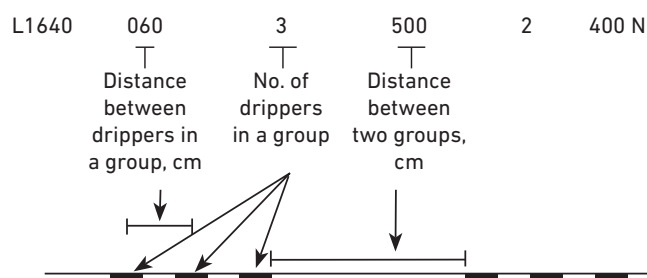
Flow equation $q = kHX$, q = discharge, gph, H = Pressure head, psi, x = Emitter exponent

Ordering Specifications

L	XX	XX	XXX	X	XXX	N	X
	Nominal diameter in mm	Discharge in lph x 10	Dripper Spacing in cm	Pressure Rating Class	Standard Coil Length in meter	N - Non pressure compensating	Color of the tube
							Blank - Standard Black with 'Twin Line' B - Brown (Landscape) W - White (Greenhouse) P - Purple (Reclaimed Water)

Example : L16400602400N - This code refers to J- Turbo Line® of 16mm nominal diameter having nominal discharge of 4 lph, emitter spaced at 60 cm, pressure rating class-2 and standard coil length of 400 m black tubing with 'Twin Line'.

- J- Turbo Line® can be supplied in group spacing on request. Specify distance between drippers in the group, distance between two groups & no. of drippers in a group (minimum three drippers) as,



Note

- J- Turbo Line® is manufactured with ID control and declared OD are nominal. If you have specific ID or OD requirement, please mention while ordering.
- J- Turbo Line® can be supplied in any other wall thickness and pressure ratings.

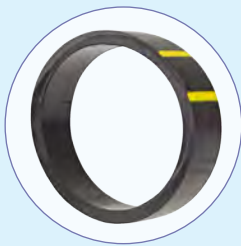


Jain Tough Hose - Twin-Line®



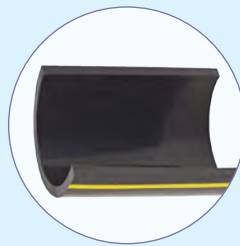
Rodent Deterrent*

Features & Benefits



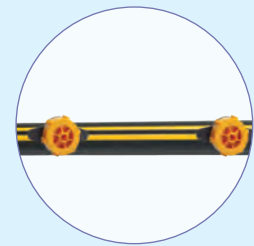
Manufactured with Premium Grade LLDPE material

Makes the tubing durable and gives best environmental stress crack resistance (ESCR).



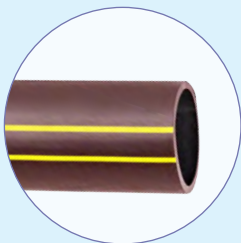
Close Dimensional Tolerances

Excellent Characteristics of LLDPE provided durable tubing with close dimensional tolerances.



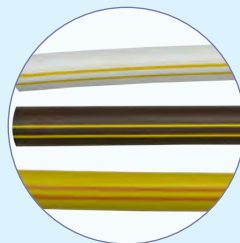
No Environmental Effects

UV stabilised tubing does not have any environmental effects. .



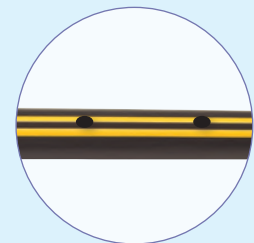
Marked with Two Parallel Yellow Stripes 'Twin- Line®'

Symbol of quality. It also helps for proper positioning of the dripper.



Flexibility in colour selection

Black - Standard colour for agriculture,
Brown - for landscape application,
White - for greenhouse application,
Purple - for reclaimed water application.



Ease of Installation

Available in pre-punched option at specified spacings. Standard punch size 2.5mm, other punch size can be supplied on demand.

Jain Tough Hose - Twin-Line®

Additional Features

- Twin-Line® also available in red stripes for rat repellent option.
- Pre-punched tubing at specified distance and hole size can be supplied on demand (standard hole size is 2.9 mm)
- Manufactured as per IS / ISO / ASAE / AS / ASTM standards
- Each batch is tested for the following parameters:
 - Dimensional tolerances.
 - Short term & long term hydraulic pressure.
 - Heat reversion.
 - Carbon black content.
 - Environmental stress crack resistance (ESCR).
 - Tensile Strength and Elongation.

Applications

- Used as laterals in drip irrigation systems
- Used in greenhouses for high pressure foggers, spray heads and jets application

Specifications

Nominal Diameter : 12 mm to 32 mm

Working Pressure : 2.0 kg/cm² to 4 kg/cm²

Standards : IS / ISO / ASAE / AS / ASTM

Jain Tough Hose-Twin-Line® Drip Polytube as per IS:12786

Nominal OD	Inside Diameter	Min. Wall Thickness	Std. Coil Length	Minimum Weight	
mm	mm	mm	m	g/m	lbs/100ft
Class- I					
12	10.8	0.6	100,250,500	20.09	1.35
16	14.4	0.8	100,250,400	35.72	2.39
20	18.2	0.9	250	50.50	3.38
25	22.6	1.2	250	83.90	5.62
32	29.0	1.5	100,250	134.40	9.00
Class- II					
12	10.2	0.9	100,250,500	29.35	1.97
16	13.8	1.1	100,250,400	48.15	3.23
20	17.6	1.2	250	66.28	4.44
25	21.6	1.7	250	116.37	7.80
32	28.0	2.0	100,250	176.27	11.81
Class- III					
12	9.6	1.2	100,250,500	38.07	2.55
16	13.2	1.4	100,250,400	60.05	4.02
20	17.0	1.5	250	81.52	5.46
25	20.8	2.1	250	141.28	9.47
32	27.0	2.5	100,250	216.66	14.52

Jain Tough Hose - Twin-Line®

Nom. Dia.	Inside Diameter		Min. Wall Thickness		Max. Working Pressure		Std. Coil Length		Minimum Weight	
	mm	inch	mm	inch	kg/cm ²	psi	m	ft	g/m	lbs/100ft
13	13	0.512	0.95	0.037	3.7	52	500	1640	38.93	2.61
13	13	0.512	1.10	0.043	4.2	59	500	1640	45.56	3.05
13	13	0.512	1.40	0.055	5.1	72	500	1640	59.23	3.97
16	16	0.630	0.90	0.035	3.0	42	300	984	44.68	2.99
16	16	0.630	1.10	0.043	3.5	49	300	984	55.26	3.70
16	16	0.630	1.40	0.055	4.3	61	300	984	71.56	4.79

Jain Tough Hose - Twin-Line® as per AS-2698-1 (Type 30)

Nom. Dia.	Inside Diameter		Min. Wall Thickness		Std. Coil Length	Minimum Weight	
mm	mm	inch	mm	inch	m	g/m	lbs/100ft
10	09.8	0.385	1.0	0.039	300	31.73	2.12
13	12.7	0.500	1.2	0.047	300	49.00	3.28
16	15.8	0.622	1.2	0.047	200	59.95	4.02
19	18.9	0.744	1.3	0.051	200	77.15	5.17
25	25.2	0.992	1.5	0.059	200	127.65	8.55
32	31.5	1.240	2.0	0.078	100	196.80	13.19

Note:

- Inside diameter based tubing.
- Jain Tough Hose - Twin Line® as per AS-2698-1 can also be supplied with Type 50 material.

Ordering Specifications

T	X	XX	XXX	XXX
	0 - Outside Diameter Based Tubing I - Inside Diameter Based Tubing	Nominal Diameter in mm	for Drip Polytube as per IS 12786 1 - Pressure Class1 2 - Pressure Class2 3 - Pressure Class3 for other tubing, Wall Thickness in mm x 100	Standard coil length in meter

Example: T113140500 - This code refers to Jain Tough Hose of nominal diameter 13 mm and minimum wall thickness of 1.4 mm with standard coil length of 500 m.

Note:

- Please refer standard specification table while ordering.
- Jain Tough Hose in any other wall thickness & / or coil length can be manufactured and supplied as a special order.
- For ordering Jain Tough Hose with Rodent Deterrent features change the above code as T113140R500.
- For ordering Jain Tough Hose white colored tubing, please change the code as T113140500W.
- For ordering Jain Tough Hose brown colored tubing, please change the code as T113140500B.
- For ordering Jain Tough Hose purple colored tubing, please change the code as T113140500P.
- For prepunch Jain Tough Hose change the code as,

T113140500 PXX _____
Hole Spacing in cm.

Extension Tube



Features & Benefits



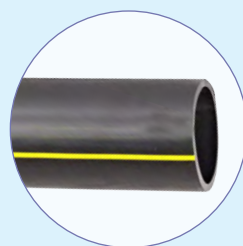
Smooth Surface for Minimal Frictional Loss

Makes tube durable smooth for minimal friction losses.



Close Dimensional Tolerances

Excellent Characteristics of LLDPE provided durable tubing with close dimensional tolerances.



Yellow Line As Mark of Quality

Symbol of quality helps to ensure upright positioning of the dripper to better clog resistance.



Special Fittings Available

Specially designed extension tube fittings are available

Additional Features

- Manufactured from special LLDPE material : High impact and best LLDPE materials for resistance to chemicals and radiation
- Quality Come First : Each batch is tested for stringent quality parameters

Applications

Used as an extension line in micro irrigation system.
Used for connection of hydraulic control valves.

Specifications

Nominal Diameter: 6 mm & 8 mm

Technical Specifications

Nominal Diameter	Inside Diameter	Min. Wall Thickness	Std. Coil Length	Minimum Weight	
mm	mm	mm	m	g/m	lbs/100ft
6.00	4.00	1.0	250	14.89	0.99
8.00	6.00	1.0	250	20.40	1.37

Ordering Specifications

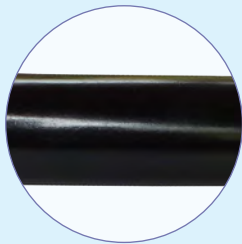
M	X	XX	XX	XXX
	0 - Outer dia. based tubing I - Inner dia. based tubing	Nominal diameter in mm x 10	Min. wall thickness in mm x 10	Standard coil length in meter

Example: M06010250 - This code refers to Jain Tough Hose - Extension Tube of nominal diameter 6 mm and wall thickness of 1.0 mm with standard coil length of 250m.

Vinyl Tube

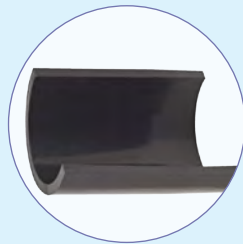


Features & Benefits



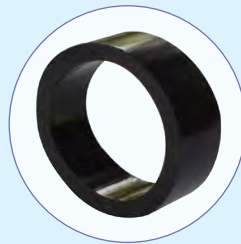
Flexible Tubing, Conforms to Any Contour

Flexible tube confirms anti kinking ability



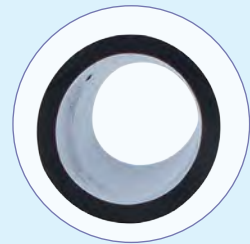
Smooth Surface for Minimal Frictional Loss

Makes tube durable smooth for minimal friction losses.



Light Weight Yet Tough and Abrasion Resistant

Light weight, tough and abrasion resistant, handles wide variety of chemicals & liquids.



State-Of-Art Technology Gives Uniform Wall Thickness

It's computerised continuous online quality control monitors reliable quality and consistent performance.

Additional Features

- Manufactured from high quality Poly Vinyl : High quality Poly Vinyl material for resistance to chemicals and radiation, Also provided with durable tubing for close dimensional tolerances
- Quality Come First : Each batch is tested for stringent quality parameters

Applications

Used as an extension tube in micro irrigation system.
Used with turbo stake dripper.
Used with "Rainport™" Sprinkler assembly

Specifications

Nominal Diameter: 4 mm to 20 mm

Technical Specifications

Nominal Dia.	Inside Dia.	Outer Dia.	Min. Wall Thickness	Shore 'A' Hardness	Std. Coil Length
mm	mm	mm	mm		m
3	3	5	1	75 + 5	100
4	4	6	1	75 + 5	100
4	4	7	1.5	75 + 5	100
8	8	12	2	75 + 5	100
9	9	13	2	75 + 5	100
20	16	20	2	75 + 5	100

Ordering Specifications

VTI	XX	XXX
	Nominal Diameter in mm	Wall Thickness in mm x 100

Example: VT104100 - This code refers to Vinyl Tube of nominal diameter 4 mm and wall thickness of 1 mm.

Jain Oval Hose

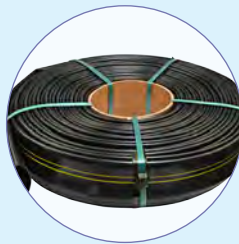


Features & Benefits



Quality Comes First

Each batch passes through stringent quality tests as per ASAE standard to ensure efficient and trouble free performance for long period.



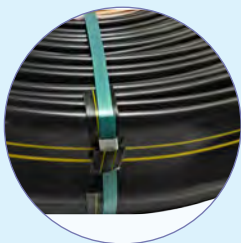
Freight Saver and Portable

Oval shape reduces freight and storage cost.



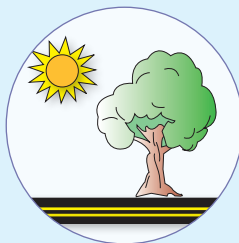
Quality Comes First

Each batch passes through stringent quality tests as per ASAE standard to ensure efficient and trouble free performance for long period.



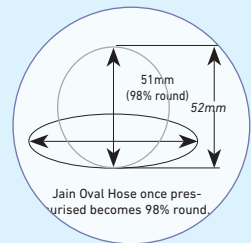
Choice of Selection

Available in wide range of diameters 10 mm to 151 mm, working pressure ranges : 1.13 to 2.9 kg/cm²



No Environmental Effects

UV stabilised tubing does not have any environmental effects. .



Oval to Round

Jain Oval Hose once pressurised becomes 98% round.

Jain Oval Hose

Additional Features

- Each batch is tested for the following parameters:
 - Dimensional tolerances.
 - Short term & long term hydraulic pressure.
 - Heat reversion.
 - Carbon black content.
 - Environmental stress crack resistance (ESCR).
 - Tensile Strength and Elongation.
- Quality Come First : Each batch is tested for stringent quality parameters, tested as per ASAE standard.

Applications

Larger diameter used as main & sub main and smaller diameter as laterals in drip / micro irrigation system

Specifications

Nominal Diameter: 10 mm to 151 mm

Working Pressure: 1.13 kg/cm² to 2.9 kg/cm²



Technical Specifications

Nominal Dia.		Inside Dia.		Min. Wall Thickness		Coil Length		Minimum Weight	
mm	inch	mm	inch	mm	inch	m	ft	g/m	lbs/ 100ft
2.9 kg/cm² (42 psi) Working Pressure									
10	--	9.90	0.39	0.533	0.021	1006	3300	16.0	1.07
13	--	12.70	0.50	0.686	0.027	914	3000	27.0	1.81
16	0.50	16.00	0.63	0.864	0.034	500	1640	43.0	2.88
20	0.75	20.57	0.81	1.092	0.043	365	1200	69.0	4.62
26	1.00	26.41	1.04	1.372	0.054	201	660	112.0	7.50
35	1.25	34.54	1.36	1.778	0.070	122	400	190.0	12.73
40	1.50	40.38	1.59	2.134	0.084	107	350	266.0	17.82
52	2.00	51.99	2.04	2.743	0.108	76	250	441.0	29.55
1.45 kg/cm² (21 psi) Working Pressure									
26	1.00	26.41	1.04	0.660	0.026	506	1660	52.0	3.48
35	1.25	34.54	1.37	0.864	0.034	244	800	90.0	6.03
40	1.50	40.38	1.60	1.016	0.040	183	600	123.0	8.24
52	2.00	51.99	2.05	1.295	0.051	137	450	203.0	13.60
77	3.00	77.16	3.03	1.930	0.075	61	200	448.0	30.01
101	4.00	101.37	3.99	2.540	0.100	40	131	775.0	51.92
1.13 kg/cm² (16 psi) Working Pressure									
151	6.00	151.30	5.95	2.760	0.108	30	100	1250.0	83.75

Note: Inside Diameter based Hose.

Ordering Specifications

OH	X	XXX	XXX	MXXX
	O - Outer dia. based hose I - Inner dia. based hose	Nominal diameter in mm	Min. wall thickness in inch x 1000	Standard coil length in meter

Example: OH1016034M500 - This code refers to Jain Oval Hose of nominal diameter 16 mm having wall thickness 0.034" with standard coil length of 500 m.

Note:

- Please refer standard specification table while ordering.
- On request, Jain Oval Hose can be supplied in any other length than standard coil length.

Maximum Running Lengths of Drippers



Click Tif® HD



12 mm tube (10.2 mm ID tube)

Dripper Spacing		20 cm	40 cm	50 cm	60 cm	75 cm	90 cm	100 cm	120 cm	150 cm	180 cm	200 cm	250 cm	300 cm
Slope, %		Length (m)												
		1.3 lph												
2	1.0	51.4	79.2	92.5	103.8	119.3	132.3	140.0	153.6	169.5	183.6	192.0	207.5	222.0
	1.5	64.8	101.2	119.0	134.4	156.0	175.5	186.0	206.4	232.5	253.8	268.0	297.5	324.0
	2.0	74.4	116.8	138.0	156.0	182.3	206.1	219.0	243.6	276.0	304.2	322.0	362.5	396.0
	2.5	82.0	129.2	153.0	174.0	203.3	230.4	245.0	273.6	310.5	343.8	366.0	412.5	453.0
	3.0	88.6	140.0	166.0	188.4	221.3	250.2	267.0	298.8	339.0	376.2	402.0	417.5	462.0
	3.5	94.4	149.2	177.0	201.6	236.3	268.2	286.0	320.4	364.5	405.0	432.0	450.0	498.0
	4.0	99.4	157.6	187.0	213.0	250.5	283.5	303.0	339.6	387.0	432.0	460.0	480.0	531.0
0	1.0	54.8	88.0	105.0	120.0	142.5	162.9	174.0	196.8	228.0	257.4	276.0	320.0	360.0
	1.5	67.6	108.4	129.5	148.2	175.5	200.7	215.0	243.6	280.5	316.8	340.0	392.5	441.0
	2.0	76.8	123.2	147.5	168.6	200.3	228.6	245.0	277.2	319.5	360.0	388.0	447.5	504.0
	2.5	84.4	135.2	162.0	184.8	219.8	251.1	268.0	303.6	351.0	394.2	424.0	490.0	552.0
	3.0	90.8	145.6	174.0	199.2	236.3	270.0	289.0	326.4	378.0	424.8	458.0	477.5	537.0
	3.5	96.4	154.8	185.0	211.2	250.5	286.2	307.0	346.8	400.5	451.8	486.0	507.5	570.0
	4.0	101.4	162.8	194.5	222.6	264.0	301.5	323.0	364.8	421.5	475.2	510.0	535.0	600.0
-2	1.0	58.4	97.2	118.0	137.4	166.5	194.4	210.0	242.4	288.0	333.0	364.0	437.5	507.0
	1.5	70.6	116.0	140.5	162.0	195.8	226.8	245.0	280.8	331.5	379.8	414.0	492.5	567.0
	2.0	79.4	130.0	157.0	181.2	217.5	251.1	271.0	309.6	364.5	415.8	452.0	535.0	615.0
	2.5	86.8	141.6	170.5	196.2	235.5	271.8	292.0	334.8	391.5	446.4	484.0	570.0	654.0
	3.0	93.0	151.2	182.0	209.4	251.3	288.9	311.0	355.2	415.5	473.4	514.0	540.0	615.0
	3.5	98.4	160.0	192.5	221.4	264.8	305.1	328.0	374.4	436.5	496.8	538.0	565.0	645.0
	4.0	103.4	168.0	202.0	232.2	277.5	318.6	343.0	391.2	456.0	518.4	562.0	590.0	672.0
		2 lph												
2	1.0	39.4	61.2	72.0	81.0	94.5	105.3	112.0	123.6	138.0	151.2	160.0	175.0	189.0
	1.5	49.4	77.6	92.0	103.8	121.5	136.8	146.0	162.0	184.5	203.4	216.0	242.5	264.0
	2.0	56.6	89.2	106.0	120.0	141.0	159.3	170.0	189.6	216.0	239.4	256.0	287.5	318.0
	2.5	62.4	98.8	117.0	133.2	156.8	177.3	189.0	212.4	241.5	268.2	286.0	325.0	360.0
	3.0	67.4	106.8	127.0	144.0	169.5	192.6	205.0	230.4	264.0	293.4	314.0	325.0	363.0
	3.5	71.6	113.6	135.0	154.2	181.5	206.1	220.0	246.0	282.0	315.0	336.0	350.0	390.0
	4.0	75.4	120.0	142.5	162.6	191.3	217.8	232.0	260.4	298.5	333.0	356.0	372.5	414.0
0	1.0	41.4	66.4	79.5	90.6	108.0	123.3	132.0	148.8	172.5	192.6	208.0	240.0	270.0
	1.5	51.0	82.0	98.0	112.2	132.8	151.2	162.0	183.6	211.5	239.4	256.0	297.5	333.0
	2.0	58.0	93.2	111.5	127.2	150.8	172.8	185.0	208.8	241.5	271.8	292.0	337.5	381.0
	2.5	63.8	102.4	122.0	139.8	165.8	189.0	203.0	229.2	265.5	298.8	320.0	370.0	417.0
	3.0	68.6	110.0	131.5	150.6	178.5	203.4	218.0	247.2	285.0	320.4	346.0	360.0	405.0
	3.5	72.8	116.8	139.5	159.6	189.0	216.0	232.0	261.6	303.0	340.2	366.0	382.5	432.0
	4.0	76.6	122.8	147.0	168.0	199.5	227.7	244.0	276.0	318.0	358.2	386.0	402.5	453.0
-2	1.0	43.4	71.6	87.0	100.2	121.5	140.4	152.0	175.2	207.0	237.6	260.0	307.5	357.0
	1.5	52.8	86.0	104.0	120.0	144.0	166.5	179.0	205.2	241.5	275.4	298.0	352.5	405.0
	2.0	59.6	96.8	116.5	134.4	161.3	185.4	200.0	228.0	267.0	304.2	330.0	387.5	444.0
	2.5	65.2	105.6	127.0	146.4	174.8	201.6	216.0	247.2	288.0	327.6	356.0	417.5	474.0
	3.0	69.8	113.2	136.0	156.6	186.8	215.1	231.0	262.8	307.5	349.2	378.0	395.0	450.0
	3.5	74.0	120.0	144.0	165.6	197.3	226.8	244.0	277.2	324.0	367.2	396.0	415.0	474.0
	4.0	77.8	126.0	151.0	173.4	207.0	237.6	255.0	290.4	337.5	383.4	414.0	435.0	492.0

Note : + slope : Uphill, - slope : Downhill
Minimum Pressure at the end of the lateral is 0.5 kg/cm²

Maximum Running Length for Click Tif® HD



Dripper Spacing		20 cm	40 cm	50 cm	60 cm	75 cm	90 cm	100 cm	120 cm	150 cm	180 cm	200 cm	250 cm	300 cm
Slope, %		Length (m)												
		3 lph												
2	1.0	30.6	48.0	56.5	64.2	74.3	83.7	89.0	98.4	111.0	122.4	130.0	145.0	159.0
	1.5	38.2	60.4	71.5	81.0	95.3	108.0	115.0	128.4	145.5	162.0	172.0	195.0	213.0
	2.0	43.8	69.2	82.0	93.6	110.3	125.1	133.0	148.8	169.5	189.0	202.0	230.0	255.0
	2.5	48.2	76.4	91.0	103.2	121.5	138.6	148.0	165.6	189.0	210.6	226.0	257.5	285.0
	3.0	52.0	82.4	98.0	111.6	132.0	149.4	160.0	180.0	205.5	230.4	246.0	255.0	285.0
	3.5	55.2	88.0	104.5	119.4	140.3	160.2	171.0	192.0	220.5	246.6	264.0	275.0	306.0
	4.0	58.2	92.8	110.5	126.0	148.5	169.2	180.0	202.8	232.5	261.0	278.0	290.0	324.0
0	1.0	31.8	50.8	61.0	69.6	82.5	94.5	101.0	114.0	132.0	147.6	160.0	185.0	207.0
	1.5	39.2	62.8	75.0	85.8	102.0	116.1	125.0	140.4	162.0	183.6	196.0	227.5	255.0
	2.0	44.6	71.6	85.5	97.8	115.5	132.3	142.0	160.8	184.5	208.8	224.0	260.0	291.0
	2.5	49.0	78.4	94.0	107.4	127.5	144.9	156.0	176.4	202.5	228.6	246.0	285.0	321.0
	3.0	52.6	84.4	101.0	115.2	136.5	156.6	167.0	189.6	219.0	246.6	264.0	277.5	312.0
	3.5	56.0	89.6	107.0	122.4	145.5	165.6	178.0	201.6	232.5	261.0	282.0	292.5	330.0
	4.0	58.8	94.4	113.0	129.0	153.0	174.6	187.0	211.2	244.5	275.4	296.0	310.0	348.0
-2	1.0	33.0	54.0	65.5	75.6	90.8	104.4	113.0	129.6	153.0	174.6	190.0	225.0	258.0
	1.5	40.2	65.2	78.5	90.6	108.8	125.1	134.0	153.6	180.0	205.2	222.0	260.0	297.0
	2.0	45.4	73.6	88.5	102.0	121.5	140.4	151.0	171.6	199.5	226.8	246.0	287.5	330.0
	2.5	49.8	80.4	96.5	111.0	132.8	152.1	164.0	186.0	217.5	246.6	266.0	312.5	354.0
	3.0	53.4	86.4	103.5	118.8	141.8	162.9	175.0	199.2	231.0	262.8	284.0	297.5	336.0
	3.5	56.6	91.6	109.5	126.0	150.0	171.9	185.0	210.0	244.5	277.2	300.0	312.5	354.0
	4.0	59.6	96.0	115.0	132.0	157.5	180.9	194.0	220.8	256.5	289.8	312.0	327.5	372.0
		4 lph												
2	1.0	25.6	40.0	47.5	54.0	63.0	71.1	75.0	84.0	94.5	104.4	112.0	125.0	138.0
	1.5	31.8	50.4	60.0	67.8	79.5	90.0	96.0	108.0	123.0	136.8	146.0	165.0	183.0
	2.0	36.4	57.6	68.5	78.0	92.3	104.4	111.0	124.8	142.5	160.2	170.0	195.0	216.0
	2.5	40.0	63.6	75.5	86.4	102.0	115.2	123.0	139.2	159.0	178.2	190.0	217.5	240.0
	3.0	43.2	68.8	81.5	93.0	110.3	125.1	134.0	150.0	172.5	192.6	206.0	215.0	240.0
	3.5	45.8	73.2	87.0	99.0	117.0	133.2	142.0	160.8	184.5	205.2	220.0	230.0	258.0
	4.0	48.4	77.2	92.0	104.4	123.8	140.4	150.0	169.2	195.0	217.8	234.0	242.5	273.0
0	1.0	26.4	42.4	50.5	57.6	68.3	78.3	84.0	94.8	109.5	122.4	132.0	152.5	171.0
	1.5	32.4	52.0	62.0	71.4	84.0	96.3	103.0	116.4	135.0	151.2	162.0	187.5	213.0
	2.0	37.0	59.2	71.0	81.0	96.0	109.8	117.0	133.2	153.0	172.8	186.0	215.0	240.0
	2.5	40.6	65.2	77.5	88.8	105.8	120.6	129.0	145.2	168.0	189.0	204.0	235.0	264.0
	3.0	43.6	70.0	83.5	95.4	113.3	129.6	139.0	157.2	181.5	203.4	220.0	230.0	258.0
	3.5	46.4	74.4	89.0	101.4	120.8	137.7	147.0	166.8	192.0	216.0	232.0	242.5	273.0
	4.0	48.8	78.4	93.5	106.8	126.8	144.9	155.0	175.2	202.5	228.6	246.0	255.0	288.0
-2	1.0	27.2	44.4	53.5	61.8	74.3	85.5	92.0	105.6	123.0	140.4	152.0	180.0	207.0
	1.5	33.2	54.0	64.5	74.4	89.3	102.6	110.0	124.8	147.0	165.6	180.0	210.0	240.0
	2.0	37.6	60.8	73.0	84.0	99.8	115.2	123.0	140.4	163.5	185.4	200.0	235.0	267.0
	2.5	41.2	66.4	79.5	91.8	108.8	125.1	134.0	152.4	178.5	201.6	218.0	255.0	288.0
	3.0	44.2	71.2	85.5	97.8	117.0	134.1	144.0	163.2	190.5	214.2	232.0	242.5	276.0
	3.5	46.8	75.6	90.5	103.8	123.8	142.2	152.0	172.8	201.0	226.8	246.0	257.5	291.0
	4.0	49.2	79.6	95.0	109.2	129.8	148.5	160.0	181.2	210.0	237.6	256.0	270.0	303.0

Note : + slope : Uphill, - slope : Downhill
Minimum Pressure at the end of the lateral is 0.5 kg/cm²

Maximum Running Length for Click Tif® HD



Dripper Spacing		20 cm	40 cm	50 cm	60 cm	75 cm	90 cm	100 cm	120 cm	150 cm	180 cm	200 cm	250 cm	300 cm
Slope, %		Length (m)												
		8 lph												
2	1.0	16.4	26.0	31.0	34.8	41.3	46.8	50.0	55.2	63.0	70.2	76.0	85.0	93.0
	1.5	20.4	32.4	38.5	43.8	51.8	58.5	63.0	70.8	81.0	90.0	96.0	110.0	123.0
	2.0	23.2	37.2	44.0	50.4	59.3	67.5	72.0	81.6	93.0	104.4	112.0	127.5	141.0
	2.5	25.6	40.8	48.5	55.2	65.3	74.7	80.0	90.0	103.5	115.2	124.0	142.5	159.0
	3.0	27.6	44.0	52.5	60.0	70.5	80.1	86.0	97.2	111.0	124.2	134.0	140.0	156.0
	3.5	29.2	46.8	55.5	63.6	75.0	85.5	92.0	103.2	118.5	133.2	142.0	147.5	165.0
	4.0	30.8	49.2	58.5	67.2	79.5	90.0	97.0	109.2	126.0	140.4	150.0	157.5	177.0
0	1.0	16.8	26.8	32.0	36.6	43.5	49.5	53.0	60.0	69.0	77.4	84.0	95.0	108.0
	1.5	20.6	33.2	39.5	45.0	53.3	61.2	65.0	74.4	85.5	95.4	104.0	120.0	135.0
	2.0	23.4	37.6	45.0	51.6	60.8	69.3	74.0	84.0	97.5	109.8	118.0	135.0	153.0
	2.5	25.8	41.2	49.5	56.4	66.8	76.5	82.0	92.4	106.5	120.6	130.0	150.0	168.0
	3.0	27.8	44.4	53.0	60.6	72.0	81.9	88.0	99.6	115.5	129.6	140.0	145.0	162.0
	3.5	29.4	47.2	56.5	64.8	76.5	87.3	94.0	105.6	121.5	136.8	148.0	155.0	174.0
	4.0	31.0	49.6	59.5	67.8	80.3	91.8	98.0	111.6	129.0	144.0	156.0	162.5	183.0
-2	1.0	17.0	27.6	33.0	38.4	45.8	52.2	56.0	63.6	75.0	84.6	92.0	107.5	123.0
	1.5	21.0	33.6	40.5	46.2	55.5	63.9	68.0	78.0	90.0	102.6	110.0	127.5	147.0
	2.0	23.8	38.4	46.0	52.8	62.3	72.0	77.0	87.6	102.0	115.2	124.0	145.0	162.0
	2.5	26.0	42.0	50.0	57.6	68.3	78.3	84.0	94.8	111.0	124.2	134.0	157.5	177.0
	3.0	28.0	45.2	54.0	61.8	73.5	83.7	90.0	102.0	118.5	133.2	144.0	150.0	171.0
	3.5	29.6	47.6	57.0	65.4	78.0	89.1	96.0	108.0	126.0	142.2	152.0	160.0	180.0
	4.0	31.2	50.4	60.0	69.0	81.8	93.6	100.0	114.0	132.0	149.4	160.0	167.5	189.0
		12 lph												
2	1.0	12.6	20.0	23.5	27.0	31.5	36.0	38.0	43.2	49.5	55.8	58.0	67.5	75.0
	1.5	15.6	24.8	29.5	33.6	39.8	45.0	48.0	54.0	63.0	70.2	74.0	85.0	96.0
	2.0	17.8	28.4	34.0	38.4	45.8	52.2	56.0	62.4	72.0	81.0	86.0	100.0	111.0
	2.5	19.6	31.2	37.5	42.6	50.3	57.6	61.0	69.6	79.5	88.2	96.0	110.0	123.0
	3.0	21.2	33.6	40.5	46.2	54.0	62.1	66.0	74.4	85.5	95.4	104.0	107.5	120.0
	3.5	22.4	36.0	43.0	49.2	57.8	65.7	70.0	79.2	91.5	102.6	110.0	115.0	129.0
	4.0	23.6	38.0	45.0	51.6	60.8	69.3	74.0	84.0	96.0	108.0	116.0	120.0	135.0
0	1.0	12.8	20.4	24.5	28.2	33.0	37.8	40.0	45.6	52.5	59.4	64.0	72.5	81.0
	1.5	15.8	25.2	30.0	34.8	41.3	46.8	50.0	56.4	64.5	73.8	78.0	90.0	102.0
	2.0	18.0	28.8	34.5	39.6	46.5	53.1	57.0	64.8	75.0	82.8	90.0	102.5	117.0
	2.5	19.8	31.6	38.0	43.2	51.0	58.5	63.0	70.8	81.0	91.8	98.0	115.0	129.0
	3.0	21.2	34.0	40.5	46.8	55.5	63.0	67.0	76.8	88.5	99.0	106.0	110.0	126.0
	3.5	22.6	36.4	43.5	49.2	58.5	66.6	72.0	81.6	93.0	104.4	114.0	117.5	132.0
	4.0	23.8	38.0	45.5	52.2	61.5	70.2	75.0	85.2	99.0	111.6	120.0	125.0	141.0
-2	1.0	13.0	20.8	25.0	28.8	34.5	39.6	42.0	48.0	55.5	63.0	68.0	80.0	90.0
	1.5	16.0	25.6	31.0	35.4	42.0	48.6	52.0	58.8	67.5	77.4	82.0	97.5	108.0
	2.0	18.2	29.2	35.0	40.2	47.3	54.9	58.0	66.0	76.5	86.4	94.0	107.5	123.0
	2.5	20.0	32.0	38.5	43.8	52.5	59.4	64.0	72.0	84.0	95.4	102.0	117.5	135.0
	3.0	21.4	34.4	41.0	47.4	56.3	63.9	69.0	78.0	90.0	100.8	110.0	115.0	129.0
	3.5	22.8	36.4	43.5	49.8	59.3	68.4	73.0	82.8	96.0	108.0	116.0	120.0	138.0
	4.0	24.0	38.4	46.0	52.8	62.3	71.1	77.0	86.4	100.5	113.4	122.0	127.5	144.0

Note : + slope : Uphill, - slope : Downhill
Minimum Pressure at the end of the lateral is 0.5 kg/cm²

Maximum Running Length for Click Tif® HD



16 mm tube (13.8 mm ID tube)

Dripper Spacing		20 cm	40 cm	50 cm	60 cm	75 cm	90 cm	100 cm	120 cm	150 cm	180 cm	200 cm	250 cm	300 cm
Slope, %		Length (m)												
1.3 lph														
2	1.0	82.4	122.8	141.5	156.0	175.5	191.7	199.0	213.6	229.5	241.2	248.0	260.0	267.0
	1.5	105.4	161.2	188.0	210.0	241.5	267.3	281.0	307.2	337.5	363.6	378.0	410.0	432.0
	2.0	121.8	188.4	221.0	248.4	287.3	320.4	339.0	373.2	415.5	451.8	474.0	520.0	555.0
	2.5	135.0	210.0	247.0	279.0	324.0	362.7	384.0	424.8	477.0	522.0	550.0	607.5	657.0
	3.0	146.0	228.4	269.5	304.2	354.8	398.7	423.0	469.2	528.0	579.6	614.0	635.0	693.0
	3.5	155.8	244.4	288.5	326.4	381.0	429.3	456.0	506.4	573.0	631.8	668.0	692.5	759.0
	4.0	164.6	258.8	306.0	346.2	405.0	456.3	485.0	541.2	612.0	676.8	718.0	745.0	816.0
0	1.0	92.2	147.6	176.5	202.2	239.3	273.6	293.0	331.2	382.5	430.2	464.0	535.0	603.0
	1.5	113.4	182.0	217.5	249.0	295.5	337.5	361.0	408.0	472.5	531.0	572.0	660.0	744.0
	2.0	129.0	206.8	247.5	283.2	335.3	383.4	411.0	464.4	537.0	604.8	650.0	750.0	846.0
	2.5	141.6	227.2	271.5	310.2	368.3	421.2	451.0	510.0	589.5	662.4	714.0	825.0	927.0
	3.0	152.2	244.4	292.0	334.2	396.0	452.7	485.0	548.4	633.0	712.8	768.0	802.5	903.0
	3.5	161.6	259.6	310.0	354.6	420.8	480.6	515.0	582.0	672.0	757.8	814.0	852.5	957.0
	4.0	170.0	272.8	326.0	373.2	442.5	505.8	541.0	612.0	708.0	797.4	858.0	895.0	1008.0
-2	1.0	102.0	173.2	213.0	249.6	306.0	360.0	392.0	458.4	550.5	642.6	708.0	857.5	1008.0
	1.5	121.6	203.2	247.5	288.0	350.3	409.5	444.0	513.6	612.0	709.2	776.0	932.5	1086.0
	2.0	136.2	225.6	274.0	318.0	384.8	447.3	484.0	558.0	661.5	761.4	832.0	995.0	1152.0
	2.5	148.2	244.4	296.0	342.6	413.3	479.7	518.0	595.2	703.5	808.2	882.0	1047.5	1212.0
	3.0	158.4	260.4	315.0	363.6	438.0	507.6	548.0	628.8	741.0	849.6	924.0	975.0	1119.0
	3.5	167.6	274.4	331.5	382.8	460.5	532.8	574.0	657.6	774.0	885.6	964.0	1015.0	1164.0
	4.0	175.6	287.2	347.0	400.2	480.8	555.3	598.0	685.2	804.0	919.8	1000.0	1052.5	1206.0
2 lph														
2	1.0	64.0	97.2	113.0	126.0	144.0	158.4	166.0	181.2	198.0	210.6	220.0	235.0	246.0
	1.5	81.0	125.6	147.5	165.6	192.0	214.2	226.0	249.6	277.5	302.4	318.0	350.0	375.0
	2.0	93.4	145.6	172.0	193.8	225.8	253.8	269.0	297.6	334.5	367.2	388.0	432.5	468.0
	2.5	103.2	162.0	191.0	216.6	252.8	284.4	302.0	336.0	379.5	419.4	444.0	497.5	543.0
	3.0	111.6	175.6	207.5	235.2	275.3	310.5	331.0	368.4	418.5	462.6	490.0	510.0	561.0
	3.5	118.8	187.6	222.0	252.0	295.5	333.9	355.0	397.2	451.5	498.6	532.0	552.5	609.0
	4.0	125.4	198.0	235.0	266.4	312.8	353.7	377.0	421.2	480.0	532.8	568.0	590.0	651.0
0	1.0	69.6	111.6	133.5	152.4	180.8	207.0	221.0	250.8	289.5	325.8	350.0	405.0	456.0
	1.5	85.8	137.6	164.5	187.8	222.8	254.7	273.0	308.4	357.0	401.4	432.0	497.5	561.0
	2.0	97.4	156.4	187.0	213.6	253.5	289.8	310.0	350.4	405.0	455.4	490.0	567.5	639.0
	2.5	107.0	171.6	205.0	234.6	278.3	317.7	340.0	385.2	445.5	500.4	538.0	622.5	702.0
	3.0	115.0	184.8	220.5	252.6	299.3	342.0	366.0	414.0	478.5	538.2	580.0	605.0	681.0
	3.5	122.2	196.0	234.0	268.2	318.0	362.7	389.0	439.2	508.5	572.4	616.0	642.5	723.0
	4.0	128.6	206.4	246.5	282.0	334.5	382.5	409.0	463.2	535.5	601.2	648.0	677.5	762.0
-2	1.0	75.2	126.4	154.0	180.0	219.0	256.5	278.0	322.8	385.5	448.2	492.0	592.5	690.0
	1.5	90.4	149.6	181.5	210.6	254.3	296.1	320.0	368.4	436.5	504.0	550.0	655.0	759.0
	2.0	101.6	167.2	202.0	233.4	281.3	326.7	352.0	404.4	477.0	547.2	596.0	707.5	816.0
	2.5	110.8	181.6	219.0	252.6	303.8	351.9	379.0	434.4	510.0	583.2	636.0	750.0	864.0
	3.0	118.6	193.6	233.5	269.4	323.3	373.5	402.0	459.6	540.0	615.6	670.0	705.0	807.0
	3.5	125.6	204.8	246.5	283.8	340.5	392.4	423.0	483.6	567.0	646.2	700.0	737.5	843.0
	4.0	131.8	214.4	258.0	297.6	356.3	410.4	442.0	504.0	589.5	671.4	728.0	765.0	873.0

Note : + slope : Uphill, - slope : Downhill
Minimum Pressure at the end of the lateral is 0.5 kg/cm²

Maximum Running Length for Click Tif® HD



Dripper Spacing		20 cm	40 cm	50 cm	60 cm	75 cm	90 cm	100 cm	120 cm	150 cm	180 cm	200 cm	250 cm	300 cm
Slope, %		Length (m)												
		3 lph												
2	1.0	50.2	77.2	90.5	101.4	117.0	129.6	137.0	150.0	166.5	180.0	188.0	205.0	219.0
	1.5	63.0	98.4	116.0	131.4	153.0	171.9	182.0	201.6	226.5	248.4	264.0	292.5	318.0
	2.0	72.4	114.0	134.5	152.4	178.5	200.7	214.0	237.6	270.0	297.0	316.0	355.0	387.0
	2.5	80.0	126.0	149.5	169.2	198.8	224.1	239.0	266.4	303.0	336.6	358.0	402.5	444.0
	3.0	86.2	136.4	162.0	183.6	216.0	243.9	260.0	291.6	331.5	367.2	392.0	407.5	450.0
	3.5	91.8	145.6	172.5	196.2	231.0	261.0	279.0	312.0	355.5	396.0	422.0	440.0	486.0
	4.0	96.8	153.6	182.5	207.6	243.8	277.2	295.0	331.2	378.0	421.2	450.0	467.5	519.0
0	1.0	53.4	85.6	102.5	117.0	138.8	158.4	170.0	192.0	222.0	250.2	268.0	310.0	348.0
	1.5	65.8	105.6	126.0	144.6	171.0	195.3	209.0	236.4	273.0	307.8	332.0	382.5	432.0
	2.0	74.8	120.0	143.5	164.4	195.0	222.3	238.0	268.8	310.5	351.0	376.0	435.0	489.0
	2.5	82.2	132.0	157.5	180.0	213.8	243.9	261.0	295.2	342.0	385.2	414.0	477.5	537.0
	3.0	88.4	141.6	169.5	193.8	229.5	262.8	281.0	318.0	367.5	414.0	444.0	465.0	522.0
	3.5	93.8	150.4	180.0	205.8	243.8	279.0	299.0	337.2	390.0	439.2	472.0	492.5	555.0
	4.0	98.8	158.4	189.5	216.6	256.5	293.4	314.0	355.2	411.0	462.6	498.0	520.0	585.0
-2	1.0	56.8	94.4	114.5	133.2	161.3	188.1	204.0	235.2	279.0	322.2	352.0	422.5	489.0
	1.5	68.6	112.8	136.5	157.8	189.8	219.6	237.0	272.4	321.0	369.0	402.0	475.0	549.0
	2.0	77.4	126.4	152.5	175.8	211.5	243.9	263.0	301.2	354.0	403.2	438.0	517.5	594.0
	2.5	84.4	137.6	166.0	190.8	228.8	263.7	284.0	325.2	381.0	433.8	470.0	555.0	633.0
	3.0	90.4	147.2	177.0	204.0	243.8	280.8	302.0	345.6	403.5	459.0	498.0	522.5	597.0
	3.5	95.8	155.6	187.0	215.4	257.3	296.1	319.0	363.6	424.5	482.4	522.0	550.0	624.0
	4.0	100.6	163.2	196.5	225.6	269.3	310.5	333.0	380.4	444.0	504.0	546.0	572.5	651.0
		4 lph												
2	1.0	42.0	65.2	76.5	86.4	99.8	111.6	118.0	129.6	145.5	158.4	166.0	182.5	198.0
	1.5	52.6	82.8	97.5	110.4	129.0	145.8	155.0	171.6	195.0	214.2	228.0	255.0	279.0
	2.0	60.4	95.2	113.0	127.8	150.0	169.2	180.0	201.6	229.5	253.8	270.0	305.0	336.0
	2.5	66.6	105.2	125.0	142.2	166.5	189.0	201.0	225.6	256.5	284.4	304.0	345.0	381.0
	3.0	71.8	114.0	135.0	153.6	180.8	205.2	219.0	244.8	280.5	311.4	332.0	345.0	384.0
	3.5	76.4	121.2	144.0	163.8	193.5	219.6	234.0	262.8	300.0	334.8	358.0	372.5	414.0
	4.0	80.6	128.0	152.0	173.4	204.0	232.2	247.0	278.4	318.0	354.6	380.0	395.0	438.0
0	1.0	44.2	71.2	85.0	97.2	114.8	131.4	141.0	159.6	184.5	207.0	222.0	257.5	288.0
	1.5	54.6	87.6	104.5	119.4	141.8	162.0	174.0	196.8	226.5	255.6	274.0	317.5	357.0
	2.0	62.0	99.6	119.0	136.2	161.3	184.5	197.0	223.2	258.0	289.8	312.0	360.0	405.0
	2.5	68.2	109.2	130.5	149.4	177.0	202.5	217.0	244.8	283.5	318.6	342.0	395.0	447.0
	3.0	73.2	117.6	140.5	160.8	190.5	217.8	233.0	264.0	304.5	342.0	368.0	385.0	435.0
	3.5	77.8	124.8	149.0	170.4	202.5	231.3	248.0	279.6	324.0	363.6	392.0	410.0	459.0
	4.0	81.8	131.2	157.0	179.4	213.0	243.0	260.0	294.0	340.5	383.4	412.0	430.0	486.0
-2	1.0	46.6	76.8	93.5	108.0	130.5	152.1	164.0	188.4	223.5	257.4	280.0	335.0	387.0
	1.5	56.4	92.4	111.5	129.0	154.5	179.1	193.0	220.8	259.5	297.0	322.0	382.5	438.0
	2.0	63.8	104.0	125.0	144.0	172.5	198.9	214.0	244.8	286.5	327.6	356.0	417.5	477.0
	2.5	69.6	113.2	136.5	156.6	187.5	216.0	232.0	265.2	310.5	352.8	382.0	447.5	513.0
	3.0	74.8	121.2	146.0	167.4	200.3	230.4	248.0	282.0	330.0	374.4	406.0	425.0	483.0
	3.5	79.2	128.4	154.0	177.0	211.5	243.0	261.0	297.6	346.5	394.2	426.0	447.5	507.0
	4.0	83.2	134.8	161.5	186.0	222.0	254.7	274.0	312.0	363.0	412.2	446.0	467.5	531.0

Note : + slope : Uphill, - slope : Downhill

Minimum Pressure at the end of the lateral is 0.5 kg/cm²

Maximum Running Length for Click Tif® HD



Dripper Spacing		20 cm	40 cm	50 cm	60 cm	75 cm	90 cm	100 cm	120 cm	150 cm	180 cm	200 cm	250 cm	300 cm
Slope, %		Length (m)												
8 lph														
2	1.0	27.2	42.8	50.5	57.0	66.8	75.6	80.0	88.8	100.5	111.6	118.0	132.5	144.0
	1.5	34.0	53.6	63.5	72.6	84.8	96.3	103.0	115.2	130.5	145.8	154.0	175.0	195.0
	2.0	38.8	61.6	73.0	83.4	98.3	111.6	119.0	133.2	151.5	169.2	182.0	205.0	228.0
	2.5	42.8	68.0	81.0	91.8	108.8	123.3	131.0	147.6	169.5	189.0	202.0	230.0	255.0
	3.0	46.0	73.2	87.0	99.6	117.0	133.2	142.0	159.6	183.0	205.2	220.0	227.5	255.0
	3.5	49.0	78.0	93.0	105.6	125.3	142.2	152.0	170.4	196.5	219.6	234.0	245.0	273.0
	4.0	51.6	82.4	98.0	111.6	132.0	150.3	160.0	180.0	207.0	232.2	248.0	260.0	288.0
0	1.0	28.2	45.2	54.0	61.8	72.8	83.7	89.0	100.8	117.0	131.4	142.0	162.5	183.0
	1.5	34.8	55.6	66.5	76.2	90.0	102.6	110.0	124.8	144.0	162.0	174.0	200.0	225.0
	2.0	39.6	63.2	75.5	86.4	102.8	117.0	125.0	141.6	163.5	183.6	198.0	230.0	258.0
	2.5	43.4	69.6	83.0	94.8	112.5	128.7	138.0	156.0	180.0	201.6	218.0	252.5	282.0
	3.0	46.6	74.8	89.5	102.0	121.5	138.6	148.0	168.0	193.5	217.8	234.0	245.0	276.0
	3.5	49.6	79.6	95.0	108.6	129.0	146.7	157.0	177.6	205.5	232.2	248.0	260.0	291.0
	4.0	52.2	83.6	100.0	114.0	135.8	154.8	166.0	187.2	216.0	243.0	262.0	272.5	309.0
-2	1.0	29.2	47.6	57.5	66.0	79.5	91.8	99.0	112.8	133.5	151.2	164.0	195.0	222.0
	1.5	35.4	57.6	69.5	79.8	95.3	109.8	118.0	134.4	157.5	178.2	194.0	227.5	258.0
	2.0	40.2	65.2	78.0	90.0	107.3	123.3	132.0	151.2	175.5	199.8	216.0	252.5	288.0
	2.5	44.0	71.2	85.5	97.8	117.0	134.1	144.0	164.4	190.5	216.0	234.0	272.5	309.0
	3.0	47.2	76.4	91.5	105.0	125.3	144.0	154.0	175.2	204.0	230.4	250.0	260.0	297.0
	3.5	50.0	80.8	97.0	111.0	132.8	152.1	163.0	184.8	216.0	243.0	264.0	275.0	312.0
	4.0	52.6	84.8	102.0	117.0	138.8	159.3	171.0	194.4	225.0	255.6	276.0	287.5	327.0
12 lph														
2	1.0	21.0	33.2	39.5	44.4	52.5	59.4	63.0	70.8	79.5	88.2	94.0	107.5	117.0
	1.5	26.2	41.6	49.5	56.4	66.0	74.7	80.0	90.0	102.0	113.4	122.0	140.0	153.0
	2.0	30.0	47.6	56.5	64.2	75.8	86.4	92.0	103.2	118.5	133.2	142.0	162.5	180.0
	2.5	33.0	52.4	62.5	70.8	84.0	95.4	102.0	115.2	132.0	147.6	158.0	180.0	201.0
	3.0	35.4	56.4	67.5	76.8	90.8	103.5	110.0	123.6	142.5	160.2	170.0	177.5	198.0
	3.5	37.6	60.0	71.5	81.6	96.8	109.8	117.0	132.0	151.5	171.0	182.0	190.0	213.0
	4.0	39.8	63.2	75.5	86.4	102.0	116.1	124.0	139.2	160.5	180.0	194.0	200.0	225.0
0	1.0	21.6	34.4	41.5	47.4	56.3	63.9	68.0	76.8	90.0	100.8	108.0	125.0	141.0
	1.5	26.6	42.8	51.0	58.2	69.0	79.2	85.0	96.0	111.0	124.2	134.0	155.0	174.0
	2.0	30.4	48.4	58.0	66.6	78.8	90.0	96.0	109.2	126.0	140.4	152.0	175.0	198.0
	2.5	33.2	53.2	63.5	72.6	86.3	99.0	106.0	120.0	138.0	154.8	166.0	192.5	216.0
	3.0	35.8	57.2	68.5	78.6	93.0	106.2	114.0	128.4	148.5	167.4	180.0	187.5	210.0
	3.5	38.0	60.8	73.0	83.4	99.0	112.5	121.0	136.8	157.5	178.2	190.0	200.0	225.0
	4.0	40.0	64.0	76.5	87.6	104.3	118.8	127.0	144.0	166.5	187.2	200.0	210.0	237.0
-2	1.0	22.2	36.0	43.5	49.8	60.0	68.4	74.0	84.0	99.0	113.4	122.0	142.5	165.0
	1.5	27.0	44.0	52.5	60.6	72.0	82.8	89.0	102.0	118.5	133.2	144.0	170.0	192.0
	2.0	30.8	49.6	59.5	68.4	81.8	93.6	100.0	114.0	132.0	149.4	162.0	190.0	216.0
	2.5	33.6	54.4	65.0	74.4	89.3	101.7	109.0	124.8	144.0	163.8	176.0	205.0	234.0
	3.0	36.2	58.4	70.0	79.8	95.3	108.9	117.0	133.2	154.5	174.6	188.0	197.5	222.0
	3.5	38.4	62.0	74.0	84.6	101.3	116.1	124.0	140.4	163.5	185.4	200.0	207.5	237.0
	4.0	40.4	64.8	78.0	89.4	105.8	121.5	130.0	147.6	171.0	194.4	208.0	217.5	246.0

Note : + slope : Uphill, - slope : Downhill
Minimum Pressure at the end of the lateral is 0.5 kg/cm²

Maximum Running Length for Click Tif® HD



20 mm tube (17.6 mm ID tube)

Dripper Spacing		20 cm	40 cm	50 cm	60 cm	75 cm	90 cm	100 cm	120 cm	150 cm	180 cm	200 cm	250 cm	300 cm
Slope, %		Length (m)												
1.3 lph														
2	1.0	117.4	168.0	189.0	204.6	224.3	238.5	245.0	255.6	267.0	273.6	278.0	282.5	288.0
	1.5	153.4	228.8	263.0	290.4	326.3	355.5	370.0	396.0	424.5	446.4	460.0	480.0	495.0
	2.0	179.0	271.6	315.0	351.0	399.8	440.1	461.0	499.2	544.5	581.4	602.0	642.5	672.0
	2.5	199.4	305.6	356.0	398.4	457.5	506.7	533.0	582.0	642.0	691.2	720.0	777.5	822.0
	3.0	216.6	334.0	391.0	438.6	505.5	563.4	594.0	651.6	723.0	783.0	820.0	842.5	903.0
	3.5	231.6	358.8	421.0	473.4	547.5	612.0	646.0	711.6	793.5	864.0	908.0	935.0	1008.0
	4.0	245.0	380.8	447.5	504.6	585.0	655.2	693.0	765.6	856.5	936.0	986.0	1017.5	1101.0
0	1.0	139.6	224.0	268.0	306.0	363.0	414.9	444.0	502.8	580.5	653.4	704.0	812.5	915.0
	1.5	172.0	276.0	330.0	377.4	447.8	511.2	548.0	619.2	715.5	806.4	866.0	1002.5	1128.0
	2.0	195.6	314.0	375.0	429.0	508.5	581.4	622.0	704.4	814.5	916.2	986.0	1140.0	1281.0
	2.5	214.6	344.4	411.5	470.4	558.0	638.1	683.0	772.8	892.5	1004.4	1082.0	1250.0	1407.0
	3.0	230.8	370.4	442.5	506.4	600.8	685.8	735.0	831.6	960.0	1081.8	1164.0	1217.5	1368.0
	3.5	245.0	393.2	470.0	537.6	637.5	728.1	780.0	882.0	1020.0	1148.4	1236.0	1292.5	1455.0
	4.0	257.8	413.6	494.5	565.8	670.5	766.8	821.0	928.8	1072.5	1207.8	1300.0	1360.0	1530.0
-2	1.0	162.4	282.4	350.5	414.6	514.5	611.1	668.0	786.0	955.5	1123.2	1242.0	1520.0	1797.0
	1.5	190.8	324.4	398.5	467.4	573.8	675.9	735.0	858.0	1033.5	1206.0	1328.0	1610.0	1890.0
	2.0	212.2	356.8	436.0	508.8	621.0	728.1	790.0	918.0	1098.0	1274.4	1400.0	1687.5	1971.0
	2.5	229.8	383.6	467.5	544.2	661.5	772.2	837.0	969.6	1155.0	1335.6	1464.0	1757.5	2046.0
	3.0	245.0	407.2	495.0	574.8	696.8	811.8	879.0	1015.2	1206.0	1391.4	1522.0	1607.5	1863.0
	3.5	258.4	428.0	519.5	602.4	729.0	847.8	916.0	1057.2	1252.5	1441.8	1574.0	1662.5	1923.0
	4.0	270.6	446.8	541.5	627.6	757.5	880.2	951.0	1094.4	1294.5	1467.0	1624.0	1712.5	1977.0
2 lph														
2	1.0	92.8	136.8	156.5	171.6	192.0	207.0	215.0	229.2	243.0	253.8	260.0	270.0	276.0
	1.5	119.4	181.2	210.5	234.6	267.8	295.2	310.0	336.0	367.5	392.4	408.0	435.0	456.0
	2.0	138.4	212.8	249.0	279.0	321.0	357.3	377.0	412.8	457.5	495.0	518.0	562.5	597.0
	2.5	153.4	238.0	279.0	314.4	363.8	406.8	430.0	474.0	528.0	576.0	606.0	665.0	714.0
	3.0	166.4	259.2	305.0	343.8	399.0	447.3	474.0	524.4	588.0	644.4	680.0	700.0	759.0
	3.5	177.6	277.6	327.0	369.6	430.5	483.3	513.0	568.8	640.5	702.0	744.0	767.5	837.0
	4.0	187.6	294.0	347.0	392.4	457.5	514.8	547.0	608.4	685.5	756.0	800.0	827.5	906.0
0	1.0	105.6	169.2	202.5	231.6	274.5	313.2	336.0	379.2	439.5	493.2	532.0	615.0	690.0
	1.5	130.0	208.4	249.0	285.0	338.3	386.1	414.0	468.0	541.5	608.4	654.0	757.5	852.0
	2.0	147.8	237.2	283.5	324.0	384.8	439.2	470.0	531.6	615.0	691.2	744.0	860.0	969.0
	2.5	162.2	260.4	311.0	355.8	422.3	482.4	516.0	584.4	675.0	759.6	818.0	945.0	1062.0
	3.0	174.4	280.0	334.5	382.8	453.8	518.4	555.0	627.6	726.0	817.2	880.0	920.0	1035.0
	3.5	185.2	297.2	355.0	406.2	481.5	550.8	589.0	667.2	771.0	867.6	934.0	975.0	1098.0
	4.0	194.8	312.8	373.5	427.2	507.0	579.6	620.0	702.0	811.5	912.6	982.0	1027.5	1155.0
-2	1.0	118.6	202.8	250.0	293.4	361.5	426.6	465.0	544.8	657.0	768.6	848.0	1032.5	1215.0
	1.5	140.8	236.4	288.5	336.6	410.3	480.6	522.0	606.0	724.5	840.6	922.0	1110.0	1299.0
	2.0	157.2	261.6	318.5	370.2	448.5	522.9	567.0	655.2	778.5	898.2	984.0	1177.5	1368.0
	2.5	170.8	282.8	343.0	397.8	480.8	558.9	604.0	697.2	825.0	950.4	1038.0	1237.5	1434.0
	3.0	182.6	300.8	364.5	421.8	509.3	590.4	638.0	733.2	867.0	995.4	1086.0	1145.0	1320.0
	3.5	192.8	317.2	383.5	443.4	534.0	618.3	668.0	766.8	904.5	1036.8	1128.0	1190.0	1368.0
	4.0	202.2	331.6	400.5	462.6	556.5	644.4	695.0	796.8	937.5	1072.8	1168.0	1230.0	1413.0

Note : + slope : Uphill, - slope : Downhill

Minimum Pressure at the end of the lateral is 0.5 kg/cm²

Maximum Running Length for Click Tif® HD



Dripper Spacing		20 cm	40 cm	50 cm	60 cm	75 cm	90 cm	100 cm	120 cm	150 cm	180 cm	200 cm	250 cm	300 cm
Slope, %		Length (m)												
		3 lph												
2	1.0	73.4	110.8	128.0	142.2	160.5	176.4	184.0	199.2	216.0	228.6	236.0	250.0	258.0
	1.5	93.6	144.0	168.5	189.0	217.5	242.1	255.0	279.6	310.5	334.8	352.0	382.5	408.0
	2.0	108.0	167.6	197.0	222.0	258.0	288.9	305.0	337.2	378.0	412.2	434.0	480.0	516.0
	2.5	119.4	186.8	220.0	248.4	289.5	324.9	345.0	382.8	430.5	473.4	500.0	557.5	603.0
	3.0	129.2	202.8	239.5	270.6	316.5	356.4	378.0	421.2	475.5	523.8	556.0	575.0	630.0
	3.5	137.8	216.8	256.0	290.4	339.8	383.4	407.0	453.6	514.5	568.8	604.0	625.0	687.0
	4.0	145.4	229.2	271.0	307.8	360.0	406.8	433.0	483.6	549.0	606.6	646.0	670.0	738.0
0	1.0	81.0	130.0	155.5	177.6	210.8	241.2	258.0	291.6	337.5	379.8	408.0	472.5	531.0
	1.5	99.8	160.4	191.5	219.0	259.5	297.0	318.0	358.8	415.5	468.0	502.0	580.0	654.0
	2.0	113.6	182.0	217.5	249.0	295.5	337.5	361.0	408.0	472.5	531.0	572.0	660.0	744.0
	2.5	124.6	200.0	239.0	273.0	324.0	369.9	396.0	448.8	517.5	583.2	628.0	725.0	816.0
	3.0	134.0	215.2	257.0	294.0	348.8	398.7	426.0	482.4	558.0	628.2	676.0	705.0	795.0
	3.5	142.2	228.4	273.0	312.0	369.8	423.0	453.0	512.4	592.5	666.0	716.0	750.0	843.0
	4.0	149.6	240.4	287.0	328.2	389.3	444.6	476.0	538.8	622.5	700.2	754.0	787.5	888.0
-2	1.0	88.8	149.6	183.5	214.8	262.5	307.8	335.0	390.0	468.0	543.6	598.0	722.5	846.0
	1.5	106.2	176.4	214.5	249.6	302.3	352.8	382.0	441.6	525.0	604.8	662.0	792.5	921.0
	2.0	119.2	196.8	238.5	276.0	333.0	387.0	418.0	481.2	570.0	655.2	714.0	850.0	984.0
	2.5	129.8	213.2	258.0	298.2	359.3	415.8	449.0	514.8	607.5	696.6	758.0	900.0	1035.0
	3.0	138.8	227.6	274.5	316.8	381.0	441.0	475.0	544.8	640.5	732.6	798.0	840.0	963.0
	3.5	146.8	240.0	289.5	334.2	401.3	463.5	499.0	571.2	670.5	766.8	832.0	875.0	1002.0
	4.0	154.0	251.2	303.0	349.2	418.5	483.3	520.0	595.2	697.5	795.6	864.0	910.0	1041.0
		4 lph												
2	1.0	62.0	94.4	110.0	122.4	140.3	154.8	162.0	176.4	193.5	207.0	216.0	230.0	243.0
	1.5	78.4	121.6	143.0	160.8	186.0	207.9	220.0	242.4	271.5	295.2	310.0	342.5	366.0
	2.0	90.2	141.2	166.5	187.8	219.0	245.7	261.0	289.2	325.5	358.2	378.0	420.0	456.0
	2.5	99.8	156.8	185.0	209.4	245.3	276.3	293.0	326.4	369.0	406.8	432.0	485.0	528.0
	3.0	107.8	170.0	201.0	228.0	267.0	301.5	320.0	357.6	405.0	448.2	478.0	495.0	543.0
	3.5	114.8	181.2	215.0	243.6	285.8	323.1	344.0	384.0	436.5	484.2	516.0	535.0	591.0
	4.0	121.2	191.6	227.0	258.0	303.0	342.9	365.0	408.0	465.0	516.6	550.0	572.5	633.0
0	1.0	67.2	108.0	129.0	147.6	174.8	199.8	214.0	241.2	279.0	315.0	338.0	390.0	441.0
	1.5	82.8	132.8	158.5	181.8	215.3	245.7	263.0	297.6	343.5	387.0	416.0	482.5	543.0
	2.0	94.2	151.2	180.5	206.4	244.5	279.9	300.0	338.4	391.5	441.0	474.0	547.5	615.0
	2.5	103.4	165.6	198.0	226.8	268.5	306.9	329.0	372.0	429.0	484.2	520.0	600.0	678.0
	3.0	111.2	178.4	213.0	243.6	288.8	330.3	354.0	399.6	462.0	520.2	560.0	585.0	657.0
	3.5	118.0	189.2	226.0	258.6	306.8	351.0	375.0	424.8	490.5	552.6	594.0	620.0	699.0
	4.0	124.2	199.2	238.0	272.4	323.3	369.0	395.0	446.4	516.0	581.4	626.0	652.5	735.0
-2	1.0	72.4	121.6	148.0	172.8	210.8	245.7	267.0	309.6	370.5	428.4	470.0	565.0	660.0
	1.5	87.2	144.0	175.0	202.8	244.5	284.4	308.0	354.0	420.0	482.4	526.0	627.5	726.0
	2.0	98.0	161.2	194.5	225.0	270.8	314.1	339.0	388.8	459.0	525.6	572.0	677.5	783.0
	2.5	106.8	174.8	211.0	243.6	292.5	338.4	365.0	417.6	490.5	561.6	610.0	722.5	828.0
	3.0	114.4	186.8	225.0	259.8	311.3	359.1	387.0	442.8	519.0	592.2	644.0	677.5	774.0
	3.5	121.2	197.2	237.5	273.6	327.8	378.0	407.0	465.6	544.5	621.0	674.0	707.5	810.0
	4.0	127.2	206.8	249.0	286.8	343.5	395.1	425.0	486.0	568.5	646.2	702.0	737.5	840.0

Note : + slope : Uphill, - slope : Downhill
Minimum Pressure at the end of the lateral is 0.5 kg/cm²

Maximum Running Length for Click Tif® HD



Dripper Spacing		20 cm	40 cm	50 cm	60 cm	75 cm	90 cm	100 cm	120 cm	150 cm	180 cm	200 cm	250 cm	300 cm
Slope, %		Length (m)												
		8 lph												
2	1.0	40.6	63.2	74.0	83.4	96.8	108.0	115.0	126.0	141.0	154.8	162.0	180.0	192.0
	1.5	51.0	80.0	94.5	106.8	125.3	141.3	150.0	166.8	189.0	208.8	222.0	247.5	270.0
	2.0	58.4	92.0	109.0	123.6	145.5	164.7	175.0	195.6	222.0	246.6	262.0	295.0	327.0
	2.5	64.4	102.0	121.0	137.4	161.3	182.7	195.0	218.4	249.0	277.2	294.0	335.0	369.0
	3.0	69.4	110.0	130.5	148.8	174.8	198.0	212.0	237.6	271.5	302.4	322.0	335.0	372.0
	3.5	73.8	117.2	139.5	158.4	186.8	212.4	226.0	254.4	291.0	324.0	346.0	360.0	399.0
	4.0	77.8	123.6	147.0	167.4	197.3	224.1	239.0	268.8	307.5	343.8	368.0	382.5	426.0
0	1.0	42.8	68.4	82.0	93.6	111.0	126.9	136.0	153.6	177.0	199.8	214.0	247.5	279.0
	1.5	52.8	84.4	101.0	115.8	137.3	156.6	168.0	189.6	219.0	246.6	266.0	305.0	345.0
	2.0	60.0	96.0	115.0	131.4	156.0	178.2	191.0	216.0	249.0	280.8	302.0	347.5	393.0
	2.5	65.8	105.6	126.0	144.0	171.0	195.3	209.0	236.4	273.0	307.8	332.0	382.5	429.0
	3.0	70.8	113.6	135.5	155.4	183.8	210.6	225.0	254.4	294.0	331.2	356.0	372.5	420.0
	3.5	75.2	120.4	144.0	165.0	195.8	223.2	239.0	270.0	312.0	351.0	378.0	395.0	444.0
	4.0	79.0	126.8	151.5	173.4	205.5	234.9	252.0	284.4	328.5	370.8	398.0	415.0	468.0
-2	1.0	45.0	74.0	90.0	103.8	126.0	145.8	158.0	181.2	214.5	246.6	270.0	320.0	369.0
	1.5	54.4	89.2	107.5	124.2	149.3	171.9	186.0	212.4	249.0	284.4	310.0	365.0	420.0
	2.0	61.6	100.4	120.5	139.2	166.5	191.7	207.0	236.4	276.0	315.0	342.0	402.5	459.0
	2.5	67.2	109.2	131.5	151.2	180.8	207.9	224.0	255.6	298.5	338.4	368.0	432.5	492.0
	3.0	72.2	117.2	140.5	161.4	192.8	222.3	239.0	272.4	318.0	360.0	390.0	410.0	465.0
	3.5	76.4	124.0	148.5	171.0	204.0	234.9	252.0	286.8	334.5	379.8	410.0	430.0	489.0
	4.0	80.2	130.0	156.0	179.4	213.8	245.7	264.0	300.0	349.5	396.0	428.0	450.0	510.0
		12 lph												
2	1.0	31.6	49.2	58.0	66.0	76.5	86.4	92.0	102.0	114.0	126.0	134.0	150.0	162.0
	1.5	39.4	62.4	73.5	83.4	98.3	110.7	118.0	132.0	150.0	165.6	178.0	200.0	219.0
	2.0	45.2	71.6	85.0	96.6	113.3	128.7	137.0	153.6	175.5	194.4	208.0	235.0	261.0
	2.5	49.6	78.8	93.5	106.8	125.3	142.2	152.0	170.4	195.0	217.8	232.0	265.0	294.0
	3.0	53.6	85.2	101.0	115.2	135.8	154.8	165.0	184.8	211.5	235.8	254.0	262.5	294.0
	3.5	57.0	90.8	108.0	123.0	144.8	164.7	176.0	198.0	226.5	253.8	272.0	282.5	315.0
	4.0	60.0	95.6	114.0	129.6	153.0	173.7	186.0	208.8	240.0	268.2	288.0	300.0	333.0
0	1.0	32.8	52.8	63.0	72.0	85.5	97.2	104.0	117.6	136.5	153.0	164.0	190.0	213.0
	1.5	40.4	64.8	77.5	88.8	105.0	119.7	129.0	145.2	168.0	189.0	204.0	235.0	264.0
	2.0	46.0	74.0	88.0	100.8	119.3	136.8	146.0	165.6	190.5	214.2	232.0	267.5	300.0
	2.5	50.6	81.2	97.0	111.0	131.3	150.3	161.0	181.2	210.0	235.8	254.0	292.5	330.0
	3.0	54.4	87.2	104.0	119.4	141.0	161.1	173.0	195.6	225.0	253.8	274.0	285.0	321.0
	3.5	57.8	92.4	110.5	126.6	150.0	171.0	183.0	207.6	240.0	270.0	290.0	302.5	342.0
	4.0	60.8	97.6	116.5	133.2	157.5	180.0	193.0	218.4	252.0	284.4	306.0	320.0	360.0
-2	1.0	34.0	56.0	67.5	78.0	93.8	108.9	117.0	134.4	157.5	180.0	196.0	232.5	267.0
	1.5	41.6	67.6	81.5	93.6	112.5	129.6	139.0	158.4	186.0	212.4	230.0	270.0	309.0
	2.0	47.0	76.0	91.5	105.6	126.0	144.9	156.0	177.6	207.0	235.8	254.0	297.5	339.0
	2.5	51.4	83.2	100.0	114.6	137.3	157.5	169.0	193.2	225.0	253.8	276.0	322.5	366.0
	3.0	55.2	89.2	107.0	123.0	146.3	168.3	181.0	205.2	240.0	271.8	294.0	307.5	348.0
	3.5	58.4	94.4	113.5	130.2	155.3	178.2	191.0	217.2	252.0	286.2	310.0	325.0	366.0
	4.0	61.4	99.2	119.0	136.8	162.8	186.3	200.0	228.0	264.0	298.8	324.0	340.0	384.0

Note : + slope : Uphill, - slope : Downhill
Minimum Pressure at the end of the lateral is 0.5 kg/cm²

J-SC PC-Plus®



12 mm tube (10.2 mm ID tube)

Dripper Spacing		20 cm	40 cm	50 cm	60 cm	75 cm	90 cm	100 cm	120 cm	150 cm	180 cm	200 cm	250 cm	300 cm
Slope, %		Length (m)												
		2.2 lph												
2	1.0	25.0	37.6	43.5	48.0	54.8	59.4	62.0	67.2	72.0	75.6	78.0	82.5	87.0
	1.5	41.0	64.0	75.0	85.2	99.0	110.7	118.0	130.8	147.0	160.2	170.0	187.5	204.0
	2.0	49.8	78.4	92.5	105.0	123.0	138.6	148.0	164.4	187.5	207.0	220.0	247.5	270.0
	2.5	56.2	88.8	105.5	120.0	141.0	159.3	170.0	189.6	216.0	239.4	256.0	290.0	318.0
	3.0	61.6	97.6	116.0	131.4	154.5	175.5	187.0	210.0	240.0	266.4	284.0	295.0	327.0
0	1.0	27.8	44.4	53.0	60.6	72.0	81.9	88.0	99.6	115.5	129.6	140.0	160.0	180.0
	1.5	42.8	68.4	82.0	93.6	111.0	126.9	136.0	153.6	177.0	199.8	214.0	247.5	279.0
	2.0	51.2	82.4	98.5	112.2	133.5	152.1	163.0	184.8	213.0	239.4	258.0	297.5	336.0
	2.5	57.6	92.4	110.5	126.0	150.0	171.0	183.0	207.6	240.0	270.0	290.0	335.0	378.0
	3.0	62.8	100.8	120.5	137.4	163.5	186.3	200.0	225.6	261.0	293.4	316.0	330.0	372.0
-2	1.0	30.4	51.6	63.0	73.8	90.8	106.2	115.0	134.4	162.0	187.2	206.0	250.0	294.0
	1.5	44.6	73.2	88.5	102.6	123.0	143.1	154.0	177.6	208.5	239.4	260.0	310.0	357.0
	2.0	52.8	86.0	104.0	119.4	143.3	165.6	178.0	204.0	240.0	273.6	296.0	350.0	399.0
	2.5	59.0	96.0	115.5	132.6	159.0	182.7	197.0	224.4	262.5	298.8	324.0	380.0	435.0
	3.0	64.0	104.0	125.0	143.4	171.8	197.1	212.0	241.2	282.0	320.4	348.0	365.0	414.0
		4.2 lph												
2	1.0	17.0	26.0	30.5	34.2	39.0	44.1	46.0	50.4	55.5	59.4	62.0	67.5	72.0
	1.5	27.2	42.8	51.0	57.6	67.5	76.5	81.0	90.0	102.0	113.4	120.0	135.0	150.0
	2.0	33.0	52.4	62.0	70.2	83.3	93.6	100.0	112.8	127.5	142.2	152.0	172.5	192.0
	2.5	37.2	59.2	70.0	79.8	94.5	107.1	114.0	128.4	147.0	163.8	174.0	200.0	222.0
	3.0	40.6	64.8	77.0	87.6	103.5	117.9	125.0	141.6	162.0	180.0	194.0	200.0	225.0
0	1.0	18.2	29.2	35.0	39.6	47.3	54.0	58.0	64.8	75.0	84.6	90.0	105.0	117.0
	1.5	28.0	44.8	53.5	61.2	72.8	82.8	89.0	100.8	115.5	131.4	140.0	162.5	183.0
	2.0	33.6	54.0	64.5	73.8	87.0	99.9	107.0	121.2	139.5	156.6	168.0	195.0	219.0
	2.5	37.8	60.4	72.5	82.8	98.3	112.5	120.0	135.6	157.5	176.4	190.0	220.0	246.0
	3.0	41.2	66.0	79.0	90.0	107.3	122.4	131.0	147.6	171.0	192.6	206.0	215.0	243.0
-2	1.0	19.4	32.0	39.0	45.6	54.8	63.9	69.0	80.4	96.0	109.8	120.0	145.0	168.0
	1.5	28.8	46.8	56.5	65.4	78.0	90.0	97.0	110.4	129.0	147.6	160.0	187.5	216.0
	2.0	34.2	55.6	67.0	76.8	91.5	105.3	113.0	129.6	151.5	171.0	186.0	217.5	246.0
	2.5	38.4	62.0	74.5	85.8	102.0	117.0	126.0	142.8	166.5	189.0	204.0	240.0	270.0
	3.0	41.8	67.2	81.0	93.0	110.3	126.9	136.0	154.8	180.0	203.4	220.0	230.0	261.0
		8.2 lph												
2	1.0	11.2	17.6	20.5	23.4	27.0	30.6	32.0	36.0	40.5	43.2	46.0	50.0	54.0
	1.5	17.8	28.0	33.5	37.8	44.3	50.4	54.0	60.0	69.0	77.4	82.0	92.5	102.0
	2.0	21.4	34.0	40.5	46.2	54.8	62.1	66.0	74.4	85.5	95.4	102.0	115.0	129.0
	2.5	24.2	38.4	46.0	52.2	61.5	70.2	75.0	84.0	97.5	108.0	116.0	132.5	147.0
	3.0	26.4	42.0	50.0	57.0	67.5	76.5	82.0	92.4	106.5	118.8	128.0	132.5	147.0
0	1.0	11.8	18.8	22.5	25.8	30.0	34.2	37.0	42.0	48.0	54.0	58.0	67.5	75.0
	1.5	18.0	28.8	34.5	39.6	46.5	53.1	57.0	64.8	75.0	84.6	90.0	105.0	117.0
	2.0	21.8	34.8	41.5	47.4	56.3	63.9	69.0	78.0	90.0	100.8	108.0	125.0	141.0
	2.5	24.4	39.2	46.5	53.4	63.0	72.0	77.0	87.6	100.5	113.4	122.0	140.0	159.0
	3.0	26.6	42.8	51.0	58.2	69.0	79.2	84.0	94.8	109.5	124.2	134.0	140.0	156.0
-2	1.0	12.2	20.0	24.0	27.6	33.8	38.7	42.0	48.0	57.0	64.8	70.0	82.5	96.0
	1.5	18.4	29.6	36.0	40.8	48.8	56.7	61.0	68.4	81.0	91.8	98.0	115.0	132.0
	2.0	22.0	35.6	42.5	48.6	58.5	66.6	72.0	81.6	94.5	106.2	116.0	135.0	153.0
	2.5	24.6	39.6	47.5	54.6	65.3	74.7	80.0	91.2	105.0	118.8	128.0	150.0	168.0
	3.0	26.8	43.2	51.5	59.4	70.5	81.0	87.0	98.4	114.0	129.6	138.0	145.0	165.0

Note : + slope : Uphill, - slope : Downhill
Minimum Pressure at the end of the lateral is 0.8 kg/cm²

Maximum Running Length for J-SC PC-Plus®



16 mm tube (13.8 mm ID tube)

Dripper Spacing		20 cm	40 cm	50 cm	60 cm	75 cm	90 cm	100 cm	120 cm	150 cm	180 cm	200 cm	250 cm	300 cm
Slope, %		Length (m)												
2.2 lph														
2	1.0	37.6	54.0	61.0	66.0	72.8	77.4	80.0	84.0	87.0	90.0	90.0	92.5	93.0
	1.5	63.6	97.6	114.0	127.8	147.0	162.9	171.0	187.2	207.0	223.2	234.0	252.5	267.0
	2.0	78.0	121.6	143.0	160.8	186.8	209.7	222.0	244.8	274.5	300.6	316.0	350.0	378.0
	2.5	88.6	138.8	164.0	185.4	216.0	243.0	258.0	286.8	324.0	356.4	378.0	422.5	459.0
	3.0	97.0	152.8	180.5	204.6	239.3	270.0	287.0	320.4	363.0	401.4	426.0	442.5	486.0
0	1.0	44.4	71.2	85.0	97.2	115.5	131.4	141.0	159.6	184.5	207.0	224.0	257.5	291.0
	1.5	68.2	109.6	131.0	149.4	177.8	202.5	217.0	246.0	283.5	318.6	344.0	397.5	447.0
	2.0	81.8	131.2	157.0	179.4	213.0	243.0	261.0	295.2	340.5	383.4	412.0	477.5	537.0
	2.5	92.0	147.6	176.5	201.6	239.3	273.6	293.0	331.2	382.5	430.2	464.0	535.0	603.0
	3.0	100.2	160.8	192.0	219.6	261.0	297.9	319.0	361.2	417.0	469.8	504.0	527.5	594.0
-2	1.0	51.4	88.8	110.5	130.2	161.3	191.7	210.0	246.0	298.5	351.0	388.0	475.0	561.0
	1.5	73.0	121.6	148.0	172.2	208.5	243.9	264.0	304.8	363.0	419.4	460.0	550.0	642.0
	2.0	85.8	141.2	171.0	198.0	239.3	277.2	300.0	344.4	406.5	468.0	510.0	607.5	699.0
	2.5	95.4	156.4	189.0	218.4	262.5	303.3	328.0	375.6	442.5	505.8	550.0	650.0	750.0
	3.0	103.4	168.8	203.5	234.6	282.0	325.8	351.0	400.8	471.0	538.2	584.0	615.0	705.0
4.2 lph														
2	1.0	26.2	39.2	45.0	49.8	56.3	61.2	64.0	68.4	73.5	77.4	80.0	85.0	87.0
	1.5	42.8	66.8	78.5	88.8	102.8	115.2	122.0	135.6	151.5	167.4	176.0	195.0	210.0
	2.0	52.0	82.0	97.0	109.8	128.3	144.9	154.0	171.6	195.0	214.2	228.0	257.5	282.0
	2.5	59.0	93.2	110.5	125.4	147.0	166.5	177.0	198.0	225.0	250.2	266.0	300.0	333.0
	3.0	64.4	102.0	121.0	137.4	162.0	183.6	195.0	219.6	250.5	277.2	296.0	307.5	342.0
0	1.0	29.2	46.8	55.5	63.6	75.8	86.4	92.0	104.4	120.0	135.0	146.0	167.5	189.0
	1.5	44.8	72.0	86.0	98.4	116.3	133.2	142.0	160.8	186.0	208.8	226.0	260.0	291.0
	2.0	53.8	86.4	103.0	117.6	139.5	159.3	171.0	193.2	223.5	252.0	270.0	312.5	351.0
	2.5	60.4	96.8	115.5	132.6	156.8	179.1	192.0	217.2	250.5	282.6	304.0	350.0	396.0
	3.0	65.8	105.6	126.0	144.0	171.0	195.3	209.0	236.4	273.0	307.8	330.0	345.0	390.0
-2	1.0	32.0	54.4	66.5	78.0	96.0	112.5	122.0	142.8	171.0	199.8	220.0	265.0	312.0
	1.5	46.8	76.8	93.0	108.0	129.8	150.3	163.0	187.2	220.5	253.8	276.0	327.5	378.0
	2.0	55.4	90.4	109.0	126.0	150.8	174.6	188.0	214.8	252.0	288.0	312.0	367.5	423.0
	2.5	61.8	100.8	121.0	139.8	167.3	192.6	207.0	236.4	276.0	315.0	342.0	400.0	459.0
	3.0	67.2	109.2	131.0	150.6	180.0	207.0	223.0	254.4	297.0	336.6	366.0	382.5	438.0
8.2 lph														
2	1.0	17.6	26.8	31.5	35.4	40.5	45.0	47.0	51.6	57.0	61.2	64.0	70.0	75.0
	1.5	28.2	44.4	52.5	59.4	69.8	78.3	83.0	93.6	105.0	117.0	124.0	140.0	153.0
	2.0	34.0	54.0	64.0	72.6	85.5	97.2	103.0	115.2	132.0	147.6	156.0	177.5	198.0
	2.5	38.4	60.8	72.5	82.8	97.5	110.7	118.0	132.0	151.5	169.2	180.0	205.0	228.0
	3.0	42.0	66.8	79.5	90.6	106.5	121.5	129.0	145.2	166.5	185.4	200.0	207.5	231.0
0	1.0	18.8	30.0	36.0	40.8	48.8	55.8	59.0	67.2	78.0	86.4	94.0	107.5	123.0
	1.5	29.0	46.4	55.5	63.6	75.0	85.5	92.0	104.4	120.0	135.0	146.0	167.5	189.0
	2.0	34.8	55.6	66.5	76.2	90.0	102.6	110.0	124.8	144.0	162.0	174.0	202.5	225.0
	2.5	39.0	62.4	75.0	85.8	101.3	116.1	124.0	140.4	162.0	181.8	196.0	227.5	255.0
	3.0	42.6	68.4	81.5	93.0	110.3	126.0	135.0	152.4	177.0	198.0	214.0	222.5	252.0
-2	1.0	20.0	33.2	40.5	46.8	57.0	66.6	72.0	82.8	99.0	115.2	126.0	150.0	174.0
	1.5	29.8	48.4	58.5	67.2	81.0	93.6	100.0	115.2	135.0	153.0	166.0	195.0	225.0
	2.0	35.4	57.6	69.0	79.2	95.3	108.9	117.0	133.2	156.0	178.2	192.0	225.0	255.0
	2.5	39.6	64.0	77.0	88.8	105.8	121.5	130.0	148.8	172.5	196.2	212.0	247.5	282.0
	3.0	43.2	69.6	83.5	96.0	114.0	131.4	141.0	159.6	186.0	210.6	228.0	240.0	270.0

Note : + slope : Uphill, - slope : Downhill

Minimum Pressure at the end of the lateral is 0.8 kg/cm²

Maximum Running Length for J-SC PC-Plus®



20 mm tube (17.6 mm ID tube)

2.2 lph													
Dripper Spacing	20 cm	40 cm	50 cm	60 cm	75 cm	90 cm	100 cm	120 cm	150 cm	180 cm	200 cm	250 cm	300 cm
Slope, %	Length (m)												
2	1.0	52.0	70.4	77.0	81.6	86.3	89.1	91.0	92.4	94.5	95.4	96.0	96.0
	1.5	93.0	139.2	160.5	177.6	200.3	218.7	228.0	244.8	264.0	277.2	286.0	312.0
	2.0	115.4	176.4	206.0	230.4	264.0	292.5	308.0	336.0	369.0	397.8	414.0	471.0
	2.5	131.6	203.6	238.5	268.2	309.8	345.6	365.0	402.0	447.0	486.0	510.0	597.0
	3.0	144.8	225.2	265.0	298.8	346.5	388.8	411.0	454.8	510.0	556.2	588.0	657.0
0	1.0	67.4	108.0	129.0	147.6	174.8	199.8	214.0	242.4	280.5	315.0	338.0	441.0
	1.5	103.6	166.0	198.5	226.8	269.3	307.8	329.0	373.2	430.5	484.2	522.0	678.0
	2.0	124.2	199.2	238.0	272.4	323.3	369.0	395.0	446.4	516.0	581.4	626.0	813.0
	2.5	139.4	224.0	267.5	306.0	363.0	414.9	444.0	501.6	580.5	653.4	702.0	915.0
	3.0	152.0	244.0	291.5	333.0	395.3	451.8	484.0	547.2	631.5	711.0	766.0	900.0
-2	1.0	83.2	148.4	186.5	222.0	279.0	333.9	366.0	434.4	532.5	628.2	698.0	1017.0
	1.5	114.2	193.6	237.5	277.8	340.5	400.5	436.0	507.6	610.5	711.0	782.0	1110.0
	2.0	133.0	222.0	271.0	315.0	383.3	447.3	485.0	561.6	669.0	772.2	846.0	1182.0
	2.5	147.4	244.0	296.5	343.8	416.3	484.2	524.0	603.6	715.5	824.4	900.0	1245.0
	3.0	159.2	262.4	318.0	367.8	444.0	515.7	557.0	639.6	756.0	869.4	948.0	1152.0
4.2 lph													
2	1.0	37.4	54.0	61.0	66.0	72.8	77.4	80.0	82.8	87.0	90.0	90.0	93.0
	1.5	63.4	97.2	113.5	127.2	146.3	162.0	171.0	187.2	207.0	223.2	232.0	267.0
	2.0	77.8	120.8	142.5	160.2	186.0	208.8	221.0	244.8	274.5	298.8	316.0	378.0
	2.5	88.2	138.0	163.0	184.8	215.3	242.1	257.0	285.6	322.5	354.6	376.0	459.0
	3.0	96.6	152.0	180.0	204.0	238.5	269.1	286.0	319.2	361.5	399.6	424.0	483.0
0	1.0	44.2	70.8	84.5	96.6	114.8	131.4	140.0	158.4	183.0	207.0	222.0	288.0
	1.5	68.0	109.2	130.5	148.8	177.0	201.6	216.0	244.8	282.0	318.6	342.0	444.0
	2.0	81.6	130.8	156.5	178.8	212.3	242.1	259.0	292.8	339.0	381.6	410.0	534.0
	2.5	91.6	146.8	175.5	201.0	238.5	271.8	291.0	330.0	381.0	428.4	462.0	600.0
	3.0	99.8	160.0	191.5	219.0	259.5	296.1	317.0	358.8	415.5	466.2	502.0	591.0
-2	1.0	51.0	88.4	110.0	129.6	160.5	190.8	208.0	244.8	297.0	349.2	386.0	558.0
	1.5	72.6	120.8	147.0	171.0	207.8	242.1	263.0	303.6	361.5	417.6	456.0	636.0
	2.0	85.4	140.8	170.5	197.4	237.8	276.3	298.0	343.2	405.0	464.4	508.0	696.0
	2.5	95.0	155.6	188.0	217.2	261.0	302.4	326.0	373.2	439.5	502.2	548.0	744.0
	3.0	102.8	168.0	202.5	234.0	280.5	324.0	349.0	399.6	469.5	534.6	582.0	699.0
8.2 lph													
2	1.0	25.8	38.4	44.5	49.2	55.5	60.3	63.0	68.4	73.5	77.4	80.0	87.0
	1.5	42.0	65.6	77.0	87.0	101.3	113.4	120.0	133.2	150.0	163.8	174.0	207.0
	2.0	51.2	80.4	95.0	108.0	126.0	142.2	151.0	169.2	192.0	212.4	224.0	276.0
	2.5	57.8	91.2	108.5	123.0	144.0	163.8	174.0	194.4	222.0	246.6	262.0	327.0
	3.0	63.2	100.0	119.0	135.0	159.0	180.0	192.0	214.8	246.0	273.6	292.0	336.0
0	1.0	28.6	45.6	54.5	62.4	74.3	84.6	91.0	102.0	118.5	133.2	144.0	186.0
	1.5	44.0	70.4	84.0	96.0	114.0	130.5	140.0	158.4	183.0	205.2	220.0	288.0
	2.0	52.8	84.4	101.0	115.8	137.3	156.6	168.0	189.6	219.0	246.6	266.0	345.0
	2.5	59.2	95.2	113.5	129.6	153.8	175.5	188.0	213.6	246.0	277.2	298.0	387.0
	3.0	64.6	103.6	123.5	141.6	168.0	191.7	205.0	231.6	268.5	302.4	324.0	381.0
-2	1.0	31.4	53.2	65.0	76.2	93.8	109.8	120.0	139.2	168.0	194.4	214.0	303.0
	1.5	45.8	75.6	91.5	105.6	127.5	147.6	159.0	182.4	216.0	246.6	270.0	369.0
	2.0	54.4	88.8	107.0	123.6	147.8	171.0	184.0	210.0	247.5	280.8	306.0	414.0
	2.5	60.6	98.8	119.0	136.8	163.5	189.0	203.0	231.6	271.5	307.8	334.0	450.0
	3.0	65.8	106.8	128.5	147.6	177.0	203.4	218.0	249.6	291.0	331.2	358.0	429.0

Note : + slope : Uphill, - slope : Downhill

Minimum Pressure at the end of the lateral is 0.8 kg/cm²

Micro Flapper



12 mm tube (10.2 mm ID tube)

Dripper Spacing		20 cm	40 cm	50 cm	60 cm	75 cm	90 cm	100 cm	120 cm	150 cm	180 cm	200 cm	250 cm	300 cm
Slope, %		Length (m)												
		2 lph												
2	1.0	33.6	51.6	60.5	67.8	78.0	87.3	92.0	100.8	111.0	120.6	126.0	137.5	147.0
	1.5	45.8	71.6	84.5	96.0	111.8	126.0	133.0	148.8	168.0	183.6	196.0	217.5	237.0
	2.0	53.8	84.8	100.5	114.0	133.5	151.2	161.0	178.8	204.0	225.0	240.0	270.0	297.0
	2.5	60.2	95.2	113.0	128.4	150.8	170.1	182.0	202.8	231.0	257.4	274.0	310.0	342.0
	3.0	65.4	103.6	123.0	139.8	164.3	186.3	199.0	223.2	255.0	282.6	302.0	315.0	348.0
	3.5	69.8	110.8	132.0	150.0	177.0	200.7	214.0	240.0	274.5	306.0	328.0	340.0	378.0
	4.0	74.0	117.6	139.5	159.0	187.5	212.4	227.0	255.6	292.5	325.8	348.0	362.5	405.0
0	1.0	35.8	57.6	68.5	78.6	93.0	106.2	114.0	128.4	148.5	167.4	180.0	207.5	234.0
	1.5	47.6	76.4	91.0	104.4	123.8	141.3	151.0	170.4	198.0	221.4	238.0	275.0	312.0
	2.0	55.4	88.8	106.0	121.2	144.0	164.7	176.0	199.2	229.5	259.2	278.0	322.5	363.0
	2.5	61.6	98.8	118.0	135.0	159.8	182.7	196.0	220.8	255.0	288.0	310.0	357.5	402.0
	3.0	66.6	106.8	127.5	145.8	173.3	198.0	212.0	240.0	277.5	311.4	336.0	350.0	393.0
	3.5	71.0	114.0	136.5	156.0	184.5	211.5	226.0	255.6	295.5	333.0	358.0	372.5	420.0
	4.0	75.0	120.4	144.0	164.4	195.0	223.2	239.0	270.0	312.0	351.0	378.0	395.0	444.0
-2	1.0	38.2	63.2	77.0	89.4	108.8	126.9	137.0	158.4	187.5	217.8	238.0	285.0	330.0
	1.5	49.4	80.8	97.5	112.8	135.8	156.6	169.0	193.2	228.0	261.0	284.0	335.0	387.0
	2.0	57.0	92.8	112.0	129.0	154.5	178.2	192.0	219.6	256.5	293.4	318.0	375.0	429.0
	2.5	63.0	102.4	123.0	141.6	169.5	195.3	210.0	238.8	279.0	318.6	344.0	405.0	462.0
	3.0	68.0	110.4	132.5	152.4	182.3	209.7	225.0	256.8	300.0	340.2	368.0	385.0	441.0
	3.5	72.4	117.2	141.0	162.0	192.8	222.3	238.0	271.2	316.5	360.0	388.0	407.5	462.0
	4.0	76.2	123.6	148.0	170.4	203.3	233.1	250.0	285.6	331.5	376.2	408.0	427.5	486.0
		3 lph												
2	1.0	26.2	40.8	48.0	54.0	62.3	70.2	74.0	81.6	91.5	100.8	106.0	115.0	126.0
	1.5	35.4	56.0	66.0	75.0	87.8	99.0	105.0	117.6	133.5	147.6	158.0	177.5	195.0
	2.0	41.6	66.0	78.0	88.8	104.3	117.9	126.0	141.6	160.5	178.2	190.0	217.5	240.0
	2.5	46.4	73.6	87.5	99.6	117.0	133.2	142.0	159.6	181.5	203.4	216.0	247.5	273.0
	3.0	50.4	80.0	95.0	108.6	127.5	144.9	155.0	174.0	199.5	223.2	238.0	247.5	276.0
	3.5	53.8	85.6	102.0	116.4	137.3	155.7	166.0	187.2	214.5	239.4	256.0	267.5	297.0
	4.0	57.0	90.8	108.0	123.0	145.5	165.6	176.0	198.0	228.0	253.8	272.0	285.0	318.0
0	1.0	27.6	44.0	52.5	60.0	71.3	81.9	87.0	98.4	114.0	127.8	138.0	160.0	180.0
	1.5	36.6	58.4	70.0	79.8	94.5	108.0	116.0	130.8	151.5	171.0	184.0	212.5	237.0
	2.0	42.6	68.0	81.5	93.0	110.3	126.0	135.0	152.4	177.0	198.0	214.0	247.5	276.0
	2.5	47.2	75.6	90.5	103.2	123.0	140.4	150.0	169.2	196.5	221.4	238.0	275.0	309.0
	3.0	51.2	82.0	98.0	112.2	132.8	152.1	163.0	183.6	213.0	239.4	258.0	267.5	303.0
	3.5	54.6	87.6	104.5	119.4	141.8	162.0	174.0	196.8	226.5	255.6	274.0	287.5	321.0
	4.0	57.6	92.4	110.5	126.6	150.0	171.0	183.0	207.6	240.0	270.0	290.0	302.5	342.0

Minimum pressure at end of lateral is 0.6 kg/cm²

Maximum Running Length for Micro Flapper™



12 mm tube (10.2 mm ID tube)

Dripper Spacing		20 cm	40 cm	50 cm	60 cm	75 cm	90 cm	100 cm	120 cm	150 cm	180 cm	200 cm	250 cm	300 cm
Slope, %		Length (m)												
-2	1.0	28.8	47.6	57.5	66.6	80.3	93.6	101.0	116.4	136.5	158.4	172.0	205.0	237.0
	1.5	37.6	61.2	73.5	85.2	102.0	117.9	126.0	144.0	169.5	192.6	210.0	247.5	282.0
	2.0	43.4	70.4	85.0	97.8	116.3	134.1	144.0	164.4	192.0	217.8	236.0	277.5	315.0
	2.5	48.0	78.0	93.5	107.4	128.3	147.6	158.0	180.0	210.0	239.4	258.0	302.5	345.0
	3.0	52.0	84.0	101.0	115.8	138.0	158.4	170.0	194.4	225.0	255.6	276.0	290.0	330.0
	3.5	55.4	89.6	107.5	123.0	147.0	168.3	181.0	205.2	238.5	271.8	292.0	307.5	348.0
	4.0	58.4	94.4	113.0	129.6	154.5	177.3	190.0	216.0	252.0	284.4	308.0	322.5	366.0
4 lph														
2	1.0	21.8	34.0	40.5	45.6	53.3	59.4	63.0	69.6	79.5	86.4	92.0	102.5	111.0
	1.5	29.6	46.8	55.5	63.0	73.5	83.7	89.0	99.6	112.5	126.0	134.0	150.0	168.0
	2.0	34.6	54.8	65.0	74.4	87.0	99.0	106.0	118.8	135.0	151.2	162.0	182.5	204.0
	2.5	38.6	61.2	73.0	82.8	97.5	111.6	119.0	133.2	153.0	171.0	182.0	207.5	231.0
	3.0	41.8	66.8	79.5	90.6	106.5	121.5	129.0	145.2	166.5	187.2	200.0	207.5	231.0
	3.5	44.8	71.2	85.0	96.6	114.0	129.6	139.0	156.0	180.0	199.8	214.0	222.5	249.0
	4.0	47.4	75.6	90.0	102.6	120.8	137.7	147.0	165.6	190.5	212.4	228.0	237.5	267.0
0	1.0	22.8	36.4	43.5	49.8	59.3	67.5	72.0	81.6	94.5	106.2	114.0	132.5	147.0
	1.5	30.2	48.4	58.0	66.0	78.8	90.0	96.0	108.0	126.0	140.4	152.0	175.0	198.0
	2.0	35.2	56.4	67.5	77.4	91.5	104.4	112.0	126.0	145.5	163.8	176.0	205.0	231.0
	2.5	39.2	62.8	75.0	85.8	102.0	116.1	124.0	140.4	162.0	181.8	196.0	227.5	255.0
	3.0	42.4	68.0	81.5	93.0	110.3	126.0	135.0	152.4	175.5	198.0	214.0	222.5	249.0
	3.5	45.2	72.4	86.5	99.0	117.8	134.1	144.0	163.2	187.5	210.6	228.0	237.5	267.0
	4.0	47.8	76.8	91.5	105.0	124.5	142.2	152.0	171.6	198.0	223.2	240.0	250.0	282.0
-2	1.0	23.8	38.8	47.0	54.6	65.3	75.6	82.0	93.6	111.0	126.0	138.0	162.5	189.0
	1.5	31.0	50.4	60.5	69.6	83.3	96.3	103.0	117.6	138.0	156.6	170.0	200.0	228.0
	2.0	35.8	58.0	70.0	80.4	96.0	109.8	118.0	134.4	157.5	178.2	192.0	225.0	255.0
	2.5	39.8	64.4	77.0	88.2	105.8	121.5	130.0	147.6	172.5	194.4	210.0	245.0	279.0
	3.0	43.0	69.2	83.0	95.4	114.0	130.5	140.0	159.6	184.5	208.8	226.0	237.5	270.0
	3.5	45.8	74.0	88.5	101.4	120.8	138.6	149.0	169.2	196.5	221.4	240.0	250.0	285.0
	4.0	48.2	78.0	93.5	106.8	127.5	145.8	157.0	177.6	207.0	234.0	252.0	265.0	300.0
8 lph														
2	1.0	14.0	22.0	26.5	30.0	35.3	39.6	42.0	46.8	52.5	59.4	62.0	70.0	78.0
	1.5	19.0	30.0	35.5	40.8	48.0	54.0	58.0	64.8	75.0	82.8	88.0	100.0	111.0
	2.0	22.2	35.2	42.0	48.0	56.3	63.9	68.0	76.8	88.5	99.0	106.0	120.0	135.0
	2.5	24.6	39.2	47.0	53.4	63.0	72.0	77.0	86.4	99.0	111.6	118.0	135.0	153.0
	3.0	26.8	42.8	51.0	58.2	68.3	78.3	83.0	93.6	108.0	120.6	130.0	135.0	150.0
	3.5	28.6	45.6	54.5	61.8	73.5	83.7	89.0	100.8	115.5	129.6	140.0	145.0	162.0
	4.0	30.2	48.4	57.5	65.4	77.3	88.2	95.0	106.8	123.0	136.8	148.0	152.5	171.0
0	1.0	14.4	23.2	27.5	31.8	37.5	42.3	46.0	51.6	60.0	66.6	72.0	82.5	93.0
	1.5	19.2	30.8	36.5	42.0	49.5	56.7	61.0	68.4	79.5	90.0	96.0	110.0	123.0
	2.0	22.4	36.0	43.0	49.2	57.8	66.6	71.0	80.4	93.0	104.4	112.0	130.0	144.0
	2.5	24.8	40.0	47.5	54.6	64.5	73.8	79.0	88.8	103.5	115.2	124.0	145.0	162.0
	3.0	27.0	43.2	51.5	58.8	69.8	80.1	86.0	97.2	111.0	126.0	136.0	140.0	159.0
	3.5	28.8	46.0	55.0	63.0	75.0	85.5	91.0	103.2	118.5	135.0	144.0	150.0	168.0
	4.0	30.4	48.8	58.0	66.6	78.8	90.0	96.0	109.2	126.0	142.2	152.0	160.0	180.0
-2	1.0	14.8	24.0	29.0	33.6	39.8	45.9	50.0	56.4	66.0	75.6	82.0	95.0	108.0
	1.5	19.6	31.6	38.0	43.2	51.8	59.4	64.0	72.0	84.0	95.4	104.0	120.0	138.0
	2.0	22.6	36.4	44.0	50.4	60.0	68.4	74.0	84.0	97.5	109.8	118.0	137.5	156.0
	2.5	25.2	40.4	48.5	55.8	66.0	75.6	81.0	92.4	106.5	120.6	130.0	152.5	171.0
	3.0	27.2	43.6	52.5	60.0	71.3	81.9	88.0	99.6	115.5	129.6	140.0	147.5	165.0
	3.5	29.0	46.8	56.0	64.2	75.8	87.3	93.0	105.6	123.0	138.6	150.0	155.0	177.0
	4.0	30.6	49.2	59.0	67.2	80.3	91.8	98.0	111.6	129.0	145.8	158.0	165.0	186.0

Minimum pressure at end of lateral is 0.6 kg/cm²

Maximum Running Length for Micro Flapper™



16 mm tube (13.8 mm ID tube)

Dripper Spacing		20 cm	40 cm	50 cm	60 cm	75 cm	90 cm	100 cm	120 cm	150 cm	180 cm	200 cm	250 cm	300 cm
Slope, %		Length (m)												
2 lph														
2	1.0	54.0	80.8	92.5	102.6	115.5	126.0	131.0	140.4	151.5	160.2	164.0	172.5	177.0
	1.5	74.8	115.6	135.0	151.8	174.8	194.4	205.0	225.6	249.0	270.0	284.0	307.5	327.0
	2.0	88.6	138.0	162.5	183.0	213.0	238.5	253.0	279.6	313.5	343.8	362.0	400.0	432.0
	2.5	99.4	155.6	183.5	207.6	242.3	272.7	289.0	321.6	363.0	399.6	422.0	472.5	513.0
	3.0	108.2	170.0	201.0	228.0	266.3	300.6	319.0	356.4	403.5	444.6	472.0	490.0	537.0
	3.5	115.8	182.8	216.0	245.4	287.3	324.9	345.0	385.2	438.0	484.2	516.0	535.0	588.0
	4.0	122.6	193.6	229.5	260.4	306.0	345.6	368.0	411.6	468.0	518.4	552.0	575.0	633.0
0	1.0	60.2	96.8	115.5	132.0	156.8	179.1	192.0	217.2	250.5	282.6	304.0	350.0	393.0
	1.5	79.8	128.0	153.0	175.2	207.8	237.6	254.0	286.8	331.5	372.6	402.0	465.0	522.0
	2.0	93.0	149.2	178.0	204.0	241.5	276.3	296.0	334.8	387.0	435.6	468.0	540.0	609.0
	2.5	103.2	165.6	198.0	226.2	268.5	306.9	328.0	372.0	429.0	482.4	520.0	600.0	675.0
	3.0	111.8	179.2	214.5	245.4	291.0	332.1	356.0	402.0	465.0	523.8	564.0	587.5	663.0
	3.5	119.2	191.2	228.5	261.6	310.5	354.6	380.0	429.6	496.5	558.0	600.0	627.5	708.0
	4.0	126.0	202.0	241.5	276.0	327.8	374.4	401.0	453.6	523.5	590.4	634.0	662.5	747.0
-2	1.0	66.6	113.2	139.0	162.6	199.5	234.9	256.0	298.8	358.5	419.4	460.0	560.0	657.0
	1.5	84.8	140.8	171.5	199.2	241.5	280.8	304.0	351.6	417.0	482.4	526.0	630.0	732.0
	2.0	97.2	160.4	194.0	224.4	270.8	314.1	339.0	390.0	460.5	529.2	578.0	687.5	792.0
	2.5	107.2	175.6	212.5	245.4	294.8	341.1	368.0	422.4	496.5	568.8	620.0	732.5	843.0
	3.0	115.4	188.8	227.5	262.8	315.8	364.5	393.0	450.0	528.0	603.0	656.0	690.0	789.0
	3.5	122.6	200.0	241.5	277.8	333.8	385.2	414.0	474.0	555.0	633.6	688.0	722.5	828.0
	4.0	129.2	210.4	253.5	291.6	349.5	403.2	434.0	495.6	580.5	660.6	718.0	752.5	861.0
3 lph														
2	1.0	42.6	64.8	75.0	84.0	95.3	105.3	111.0	120.0	132.0	140.4	146.0	155.0	162.0
	1.5	58.4	90.8	107.0	120.6	139.5	156.6	166.0	183.6	205.5	225.0	236.0	262.5	282.0
	2.0	68.8	108.0	127.5	144.6	168.8	189.9	202.0	224.4	253.5	279.0	296.0	330.0	360.0
	2.5	77.0	121.2	143.5	162.6	190.5	215.1	229.0	255.6	289.5	320.4	342.0	385.0	423.0
	3.0	83.8	132.4	157.0	178.2	209.3	236.7	252.0	280.8	321.0	354.6	378.0	392.5	435.0
	3.5	89.6	142.0	168.0	191.4	225.0	254.7	271.0	303.6	346.5	385.2	410.0	427.5	471.0
	4.0	94.8	150.4	178.5	202.8	238.5	270.9	288.0	322.8	369.0	410.4	438.0	455.0	507.0
0	1.0	46.2	74.4	88.5	101.4	120.0	137.7	147.0	166.8	192.0	216.0	232.0	267.5	303.0
	1.5	61.2	98.4	117.5	134.4	159.0	181.8	195.0	220.8	255.0	286.2	308.0	355.0	402.0
	2.0	71.4	114.4	137.0	156.6	185.3	212.4	227.0	256.8	297.0	333.0	360.0	415.0	468.0
	2.5	79.2	127.2	152.0	174.0	206.3	235.8	252.0	285.6	330.0	370.8	398.0	460.0	519.0
	3.0	85.8	137.6	164.5	188.4	223.5	255.6	273.0	308.4	357.0	401.4	432.0	452.5	507.0
	3.5	91.6	146.8	175.5	201.0	238.5	271.8	291.0	330.0	381.0	428.4	462.0	482.5	543.0
	4.0	96.8	155.2	185.5	212.4	251.3	287.1	308.0	348.0	402.0	453.6	488.0	510.0	573.0
-2	1.0	50.0	84.0	102.5	119.4	145.5	171.0	185.0	214.8	256.5	297.0	326.0	395.0	459.0
	1.5	64.2	106.0	128.5	148.2	179.3	207.9	225.0	258.0	306.0	351.0	382.0	455.0	525.0
	2.0	74.0	121.2	146.0	168.6	202.5	234.9	253.0	290.4	340.5	390.6	424.0	502.5	576.0
	2.5	81.6	133.2	160.5	184.8	222.0	255.6	276.0	315.6	369.0	421.2	458.0	540.0	618.0
	3.0	88.0	143.2	172.5	198.6	237.8	274.5	295.0	337.2	394.5	448.2	486.0	512.5	585.0
	3.5	93.6	152.0	183.0	210.6	252.0	289.8	312.0	356.4	415.5	473.4	512.0	537.5	615.0
	4.0	98.6	160.0	192.5	221.4	264.8	304.2	327.0	373.2	435.0	495.0	536.0	562.5	639.0

Minimum pressure at end of lateral is 0.6 kg/cm²

Maximum Running Length for Micro Flapper™



16 mm tube (13.8 mm ID tube)

Dripper Spacing		20 cm	40 cm	50 cm	60 cm	75 cm	90 cm	100 cm	120 cm	150 cm	180 cm	200 cm	250 cm	300 cm
Slope, %		Length (m)												
		4 lph												
2	1.0	35.8	54.8	64.0	72.0	82.5	91.8	96.0	105.6	117.0	126.0	132.0	142.5	150.0
	1.5	48.8	76.4	90.0	102.0	118.5	133.2	141.0	157.2	177.0	194.4	206.0	230.0	249.0
	2.0	57.4	90.4	107.0	121.2	141.8	160.2	171.0	190.8	216.0	239.4	254.0	285.0	315.0
	2.5	64.2	101.2	120.0	136.2	160.5	180.9	193.0	216.0	246.0	273.6	290.0	330.0	363.0
	3.0	69.8	110.4	131.0	148.8	175.5	198.9	212.0	237.6	270.0	300.6	322.0	335.0	369.0
	3.5	74.6	118.4	140.5	159.6	188.3	213.3	228.0	255.6	292.5	325.8	348.0	360.0	402.0
	4.0	78.8	125.2	149.0	169.8	199.5	226.8	242.0	271.2	310.5	345.6	370.0	385.0	429.0
0	1.0	38.4	61.6	73.5	84.0	99.8	113.4	122.0	138.0	159.0	178.2	192.0	222.5	249.0
	1.5	50.8	81.6	97.5	111.6	132.0	151.2	162.0	182.4	211.5	237.6	256.0	295.0	333.0
	2.0	59.2	94.8	113.5	129.6	153.8	175.5	188.0	212.4	246.0	277.2	298.0	345.0	387.0
	2.5	65.8	105.6	126.0	144.0	171.0	195.3	209.0	236.4	273.0	307.8	330.0	382.5	429.0
	3.0	71.2	114.4	136.5	156.0	185.3	211.5	226.0	255.6	295.5	333.0	358.0	375.0	420.0
	3.5	76.0	122.0	145.5	166.8	197.3	225.9	242.0	273.6	316.5	354.6	382.0	400.0	450.0
	4.0	80.2	128.8	154.0	175.8	208.5	238.5	255.0	288.0	333.0	374.4	404.0	422.5	474.0
-2	1.0	41.0	68.0	83.0	96.6	117.0	136.8	148.0	171.6	204.0	235.8	258.0	310.0	360.0
	1.5	52.8	86.8	105.0	121.2	145.5	168.3	182.0	208.8	246.0	280.8	306.0	362.5	417.0
	2.0	61.0	99.6	120.0	138.0	165.8	191.7	206.0	235.2	276.0	315.0	342.0	402.5	462.0
	2.5	67.4	109.6	132.0	151.8	181.5	209.7	225.0	256.8	300.0	342.0	372.0	435.0	498.0
	3.0	72.6	118.0	142.0	163.2	195.0	225.0	241.0	274.8	321.0	365.4	396.0	415.0	474.0
	3.5	77.4	125.6	150.5	173.4	207.0	237.6	256.0	291.6	340.5	385.2	418.0	437.5	498.0
	4.0	81.6	132.0	158.5	182.4	217.5	250.2	269.0	306.0	357.0	405.0	438.0	457.5	522.0
		8 lph												
2	1.0	23.4	36.4	43.0	48.6	56.3	63.0	67.0	74.4	82.5	91.8	96.0	107.5	117.0
	1.5	31.6	49.6	59.0	66.6	78.8	89.1	94.0	105.6	120.0	133.2	142.0	160.0	177.0
	2.0	37.0	58.4	69.5	79.2	93.0	105.3	112.0	126.0	144.0	160.2	172.0	195.0	216.0
	2.5	41.2	65.6	78.0	88.8	104.3	118.8	126.0	141.6	162.0	181.8	194.0	220.0	246.0
	3.0	44.8	71.2	84.5	96.6	114.0	129.6	138.0	154.8	178.5	198.0	212.0	220.0	246.0
	3.5	47.8	76.0	90.5	103.2	121.5	138.6	148.0	166.8	190.5	214.2	228.0	237.5	267.0
	4.0	50.6	80.4	96.0	109.2	129.0	146.7	157.0	176.4	202.5	226.8	244.0	252.5	282.0
0	1.0	24.4	39.2	46.5	53.4	63.0	72.0	77.0	87.6	100.5	113.4	122.0	140.0	159.0
	1.5	32.4	52.0	62.0	70.8	84.0	96.3	103.0	116.4	133.5	151.2	162.0	187.5	210.0
	2.0	37.6	60.4	72.0	82.2	97.5	111.6	120.0	135.6	156.0	176.4	190.0	217.5	246.0
	2.5	41.8	67.2	80.0	91.8	108.8	124.2	133.0	150.0	174.0	196.2	210.0	242.5	273.0
	3.0	45.4	72.8	87.0	99.6	117.8	134.1	144.0	163.2	187.5	212.4	228.0	237.5	267.0
	3.5	48.4	77.6	92.5	106.2	126.0	144.0	154.0	174.0	201.0	226.8	244.0	255.0	285.0
	4.0	51.0	82.0	98.0	112.2	132.8	151.2	162.0	183.6	211.5	239.4	256.0	267.5	303.0
-2	1.0	25.4	41.6	50.5	58.2	70.5	81.9	88.0	100.8	118.5	136.8	148.0	177.5	204.0
	1.5	33.2	54.0	65.0	75.0	89.3	103.5	111.0	127.2	148.5	169.2	182.0	215.0	246.0
	2.0	38.4	62.4	75.0	85.8	102.8	117.9	127.0	144.0	168.0	190.8	208.0	242.5	276.0
	2.5	42.4	68.8	82.5	94.8	113.3	129.6	139.0	158.4	184.5	208.8	226.0	265.0	300.0
	3.0	46.0	74.4	89.0	102.0	121.5	139.5	150.0	170.4	198.0	225.0	242.0	255.0	288.0
	3.5	49.0	79.2	94.5	108.6	129.8	148.5	159.0	181.2	210.0	237.6	258.0	270.0	306.0
	4.0	51.6	83.2	100.0	114.6	136.5	156.6	168.0	190.8	222.0	250.2	270.0	282.5	321.0

Minimum pressure at end of lateral is 0.6 kg/cm²

Maximum Running Length for Micro Flapper™



20 mm tube (17.6 mm ID tube)

Dripper Spacing		20 cm	40 cm	50 cm	60 cm	75 cm	90 cm	100 cm	120 cm	150 cm	180 cm	200 cm	250 cm	300 cm
Slope, %		Length (m)												
		2 lph												
2	1.0	77.0	110.4	124.5	135.0	147.8	157.5	162.0	169.2	177.0	181.8	184.0	187.5	192.0
	1.5	109.8	165.6	191.0	212.4	240.8	263.7	276.0	297.6	322.5	342.0	354.0	375.0	390.0
	2.0	131.0	200.8	234.5	262.2	300.8	333.9	351.0	384.0	423.0	455.4	476.0	515.0	543.0
	2.5	147.6	228.0	267.5	300.6	347.3	387.0	409.0	450.0	501.0	543.6	572.0	625.0	669.0
	3.0	161.2	250.8	294.5	331.8	385.5	431.1	456.0	504.0	564.0	617.4	650.0	670.0	726.0
	3.5	173.0	270.0	318.0	359.4	417.8	468.9	497.0	550.8	619.5	678.6	718.0	742.5	807.0
	4.0	183.4	287.2	339.0	383.4	447.0	502.2	533.0	591.6	667.5	734.4	778.0	805.0	879.0
0	1.0	91.4	146.8	175.5	200.4	237.8	271.8	291.0	328.8	379.5	428.4	460.0	532.5	600.0
	1.5	121.0	194.4	232.0	265.2	315.0	360.0	385.0	435.6	504.0	567.0	610.0	705.0	792.0
	2.0	141.0	226.0	270.0	309.0	366.8	418.5	448.0	507.6	586.5	660.6	710.0	820.0	924.0
	2.5	156.4	251.2	300.0	343.2	407.3	465.3	498.0	562.8	651.0	732.6	788.0	910.0	1026.0
	3.0	169.4	272.0	325.0	372.0	441.0	504.0	540.0	610.8	705.0	793.8	854.0	892.5	1005.0
	3.5	180.8	290.0	346.5	396.6	470.3	537.3	576.0	651.6	753.0	847.8	912.0	952.5	1071.0
	4.0	190.8	306.4	366.0	418.8	496.5	567.9	608.0	687.6	795.0	894.6	962.0	1005.0	1131.0
-2	1.0	106.2	184.4	229.0	270.6	335.3	398.7	436.0	512.4	622.5	732.6	810.0	992.5	1173.0
	1.5	132.4	223.6	274.0	320.4	391.5	459.9	500.0	582.0	697.5	811.8	892.0	1080.0	1263.0
	2.0	150.8	251.6	306.5	357.0	433.5	505.8	549.0	634.8	756.0	874.8	958.0	1150.0	1338.0
	2.5	165.4	274.4	333.0	386.4	468.0	544.5	589.0	679.2	805.5	928.8	1016.0	1212.5	1407.0
	3.0	177.8	293.6	355.5	412.2	497.3	577.8	624.0	718.8	849.0	975.6	1066.0	1122.5	1296.0
	3.5	188.6	310.4	375.5	434.4	523.5	606.6	655.0	752.4	888.0	1018.8	1110.0	1170.0	1347.0
	4.0	198.4	325.6	393.5	454.8	547.5	633.6	683.0	783.6	924.0	1058.4	1152.0	1212.5	1395.0
		3 lph												
2	1.0	61.6	90.8	104.0	114.0	127.5	137.7	143.0	152.4	162.0	169.2	172.0	180.0	183.0
	1.5	86.2	132.0	154.0	172.2	197.3	218.7	230.0	250.8	276.0	297.0	310.0	335.0	354.0
	2.0	102.4	158.8	186.5	209.4	242.3	270.9	286.0	315.6	352.5	383.4	404.0	442.5	474.0
	2.5	115.0	179.2	211.0	238.2	277.5	311.4	330.0	364.8	409.5	450.0	474.0	527.5	570.0
	3.0	125.2	196.4	231.5	262.2	306.0	343.8	365.0	405.6	457.5	504.0	534.0	552.5	603.0
	3.5	134.2	211.2	249.5	282.6	330.0	372.6	396.0	440.4	499.5	550.8	584.0	605.0	663.0
	4.0	142.2	224.0	265.0	300.6	351.8	396.9	423.0	471.6	535.5	592.2	628.0	652.5	717.0
0	1.0	70.2	112.8	134.5	154.2	182.3	208.8	223.0	252.0	292.5	327.6	354.0	407.5	459.0
	1.5	93.0	149.2	178.0	204.0	241.5	276.3	296.0	334.8	387.0	435.6	468.0	540.0	609.0
	2.0	108.2	173.6	207.5	237.6	281.3	321.3	344.0	390.0	450.0	505.8	546.0	630.0	708.0
	2.5	120.2	192.8	230.5	263.4	312.8	357.3	383.0	433.2	499.5	563.4	606.0	700.0	786.0
	3.0	130.2	208.8	249.5	285.6	339.0	387.0	414.0	469.2	541.5	610.2	656.0	685.0	771.0
	3.5	139.0	222.8	266.5	304.8	361.5	413.1	442.0	500.4	577.5	649.8	700.0	732.5	822.0
	4.0	146.6	235.2	281.0	321.6	381.8	435.6	467.0	528.0	610.5	687.6	738.0	772.5	870.0
-2	1.0	78.8	134.8	166.5	195.6	240.8	284.4	310.0	362.4	438.0	513.0	566.0	687.5	810.0
	1.5	99.8	166.4	203.0	236.4	287.3	335.7	364.0	421.2	502.5	581.4	636.0	765.0	891.0
	2.0	114.0	188.8	229.0	265.8	321.0	373.5	404.0	465.6	552.0	635.4	692.0	827.5	957.0
	2.5	125.6	206.4	250.0	289.2	348.8	404.1	436.0	501.6	592.5	678.6	740.0	880.0	1014.0
	3.0	135.2	221.6	268.0	309.0	372.0	430.2	464.0	532.8	627.0	718.2	782.0	822.5	945.0
	3.5	143.6	234.8	283.5	327.0	393.0	453.6	489.0	560.4	658.5	752.4	818.0	860.0	987.0
	4.0	151.0	246.8	297.5	342.6	411.8	475.2	511.0	585.6	687.0	783.0	850.0	895.0	1023.0

Minimum pressure at end of lateral is 0.6 kg/cm²

Maximum Running Length for Micro Flapper™



20 mm tube (17.6 mm ID tube)

Dripper Spacing		20 cm	40 cm	50 cm	60 cm	75 cm	90 cm	100 cm	120 cm	150 cm	180 cm	200 cm	250 cm	300 cm
Slope, %		Length (m)												
		4 lph												
2	1.0	52.4	78.4	90.5	100.2	112.5	123.3	129.0	138.0	148.5	156.6	162.0	170.0	177.0
	1.5	72.4	112.0	131.0	147.0	169.5	189.0	200.0	219.6	243.0	264.6	276.0	302.5	321.0
	2.0	85.8	133.6	157.5	177.6	206.3	231.3	245.0	272.4	304.5	334.8	354.0	392.5	423.0
	2.5	96.0	150.4	178.0	201.0	234.8	264.6	281.0	312.0	352.5	388.8	412.0	460.0	501.0
	3.0	104.6	164.4	194.5	220.8	258.0	291.6	310.0	345.6	391.5	432.0	460.0	475.0	522.0
	3.5	112.0	176.8	209.0	237.6	278.3	314.1	335.0	373.2	424.5	469.8	500.0	520.0	573.0
	4.0	118.6	187.2	222.0	252.0	296.3	334.8	357.0	398.4	454.5	504.0	536.0	557.5	615.0
0	1.0	58.2	93.2	111.5	127.8	151.5	172.8	185.0	208.8	241.5	271.8	292.0	337.5	381.0
	1.5	77.0	123.6	148.0	169.2	200.3	228.6	245.0	277.2	321.0	360.0	388.0	447.5	504.0
	2.0	89.8	144.0	172.0	196.8	233.3	266.4	286.0	322.8	373.5	419.4	452.0	522.5	588.0
	2.5	99.6	160.0	191.0	218.4	259.5	296.1	317.0	358.8	414.0	466.2	502.0	580.0	654.0
	3.0	108.0	173.2	207.0	237.0	280.5	321.3	344.0	388.8	448.5	505.8	544.0	567.5	639.0
	3.5	115.2	184.8	221.0	252.6	300.0	342.0	367.0	415.2	478.5	540.0	580.0	607.5	681.0
	4.0	121.6	195.2	233.0	267.0	316.5	361.8	387.0	438.0	505.5	568.8	612.0	640.0	720.0
-2	1.0	64.2	108.8	133.5	156.0	191.3	225.0	245.0	285.6	343.5	399.6	440.0	532.5	627.0
	1.5	81.8	135.6	165.0	191.4	231.8	270.0	292.0	337.2	400.5	460.8	504.0	602.5	699.0
	2.0	93.8	154.4	187.0	216.0	261.0	302.4	326.0	375.6	442.5	507.6	554.0	657.5	759.0
	2.5	103.4	169.2	204.5	236.4	284.3	328.5	354.0	405.6	478.5	547.2	594.0	705.0	810.0
	3.0	111.4	182.0	219.5	253.2	303.8	351.0	378.0	433.2	508.5	579.6	630.0	662.5	759.0
	3.5	118.4	193.2	232.5	268.2	321.0	370.8	399.0	456.0	534.0	610.2	662.0	695.0	795.0
	4.0	124.6	202.8	244.5	281.4	336.8	387.9	418.0	477.6	558.0	635.4	690.0	725.0	828.0
		8 lph												
2	1.0	34.6	53.2	62.0	69.6	80.3	89.1	94.0	103.2	114.0	122.4	128.0	140.0	147.0
	1.5	47.2	74.0	87.0	98.4	114.8	129.6	137.0	152.4	172.5	189.0	200.0	222.5	243.0
	2.0	55.6	87.6	103.5	117.6	137.3	155.7	165.0	184.8	210.0	232.2	246.0	277.5	306.0
	2.5	62.0	98.0	116.0	132.0	155.3	175.5	187.0	208.8	238.5	264.6	282.0	320.0	351.0
	3.0	67.4	106.8	127.0	144.0	169.5	192.6	205.0	229.2	262.5	291.6	312.0	322.5	360.0
	3.5	72.0	114.4	136.0	154.8	182.3	207.0	220.0	247.2	282.0	315.0	336.0	350.0	390.0
	4.0	76.2	121.2	144.0	163.8	193.5	219.6	234.0	262.8	301.5	334.8	358.0	372.5	414.0
0	1.0	37.0	59.2	71.0	81.0	96.0	109.8	118.0	133.2	153.0	172.8	186.0	215.0	243.0
	1.5	49.0	78.8	94.0	107.4	127.5	145.8	156.0	176.4	204.0	228.6	246.0	285.0	321.0
	2.0	57.2	91.6	109.5	125.4	148.5	170.1	182.0	205.2	237.0	266.4	288.0	332.5	375.0
	2.5	63.4	102.0	121.5	139.2	165.0	188.1	202.0	228.0	264.0	297.0	320.0	370.0	414.0
	3.0	68.8	110.4	132.0	150.6	178.5	204.3	219.0	247.2	286.5	322.2	346.0	362.5	408.0
	3.5	73.4	117.6	140.5	160.8	190.5	217.8	233.0	264.0	304.5	343.8	370.0	385.0	435.0
	4.0	77.4	124.4	148.5	169.8	201.8	230.4	246.0	278.4	322.5	361.8	390.0	407.5	459.0
-2	1.0	39.4	65.6	80.0	93.0	112.5	131.4	142.0	164.4	195.0	225.0	246.0	295.0	345.0
	1.5	51.0	83.6	101.0	116.4	140.3	162.0	175.0	200.4	237.0	270.0	294.0	347.5	402.0
	2.0	58.8	96.0	115.5	133.2	159.8	184.5	198.0	226.8	265.5	302.4	328.0	387.5	444.0
	2.5	65.0	105.6	127.0	146.4	174.8	201.6	217.0	247.2	289.5	329.4	358.0	420.0	480.0
	3.0	70.2	114.0	137.0	157.2	188.3	216.9	233.0	265.2	309.0	351.0	382.0	400.0	456.0
	3.5	74.6	121.2	145.5	166.8	199.5	229.5	247.0	280.8	327.0	370.8	402.0	422.5	480.0
	4.0	78.8	127.6	153.0	175.8	210.0	241.2	259.0	295.2	343.5	388.8	422.0	442.5	501.0

Minimum pressure at end of lateral is 0.6 kg/cm²

J-Turbo Key Plus™



12 mm tube (10.2 mm ID tube) at 1.0 kg/cm²

Dripper Spacing		20 cm	40 cm	50 cm	60 cm	75 cm	90 cm	100 cm	120 cm	150 cm	180 cm	200 cm	250 cm	300 cm
Slope, %		Length (m)												
2 lph														
10 % discharge variation	2	26.6	39.6	45.5	50.4	57.0	62.1	65.0	69.6	75.0	79.2	80.0	85.0	87.0
	1	28.2	43.6	51.0	57.6	66.8	74.7	79.0	86.4	97.5	106.2	112.0	122.5	132.0
	0	29.6	47.6	57.0	64.8	77.3	88.2	94.0	106.8	123.0	138.6	148.0	172.5	195.0
	-1	31.2	51.6	62.5	72.0	87.0	100.8	109.0	126.0	148.5	171.0	186.0	222.5	258.0
	-2	32.6	55.2	68.0	79.2	96.8	113.4	123.0	144.0	172.5	199.8	218.0	265.0	309.0
7.5 % discharge variation	2	23.4	34.4	39.5	43.2	48.0	52.2	54.0	57.6	61.5	63.0	64.0	67.5	69.0
	1	25.2	38.8	45.0	51.0	58.5	64.8	69.0	75.6	84.0	90.0	94.0	102.5	111.0
	0	26.8	42.8	51.5	58.8	69.8	79.2	85.0	96.0	111.0	124.2	134.0	155.0	174.0
	-1	28.4	47.2	57.5	66.6	81.0	93.6	102.0	117.6	139.5	160.2	174.0	210.0	243.0
	-2	30.2	51.2	63.5	74.4	91.5	107.1	117.0	136.8	163.5	190.8	210.0	255.0	99.0
4 lph														
10 % discharge variation	2	17.6	26.8	31.5	35.4	40.5	45.0	47.0	51.6	57.0	61.2	64.0	70.0	75.0
	1	18.2	28.4	34.0	38.4	45.0	50.4	53.0	60.0	67.5	73.8	78.0	87.5	96.0
	0	18.8	30.0	36.0	41.4	48.8	55.8	60.0	67.2	78.0	88.2	94.0	110.0	123.0
	-1	19.4	31.6	38.5	44.4	53.3	61.2	66.0	75.6	88.5	100.8	110.0	130.0	150.0
	-2	20.0	33.2	40.5	46.8	57.0	66.6	72.0	82.8	99.0	113.4	124.0	147.5	171.0
7.5 % discharge variation	2	15.6	24.0	27.5	30.6	35.3	38.7	41.0	44.4	48.0	52.2	54.0	57.5	60.0
	1	16.4	25.6	30.0	34.2	39.8	44.1	47.0	52.8	58.5	64.8	68.0	77.5	84.0
	0	17.0	27.2	32.5	37.2	44.3	50.4	54.0	61.2	70.5	79.2	84.0	97.5	111.0
	-1	17.6	28.8	35.0	40.2	48.8	55.8	61.0	69.6	81.0	93.6	102.0	120.0	138.0
	-2	18.4	30.8	37.5	43.8	53.3	62.1	67.0	78.0	93.0	106.2	118.0	140.0	165.0
8 lph														
10 % discharge variation	2	11.4	18.0	21.0	23.4	27.8	30.6	33.0	36.0	40.5	45.0	48.0	52.5	57.0
	1	11.6	18.4	22.0	24.6	29.3	33.3	35.0	39.6	45.0	50.4	54.0	60.0	66.0
	0	12.0	19.2	23.0	25.8	30.8	35.1	38.0	42.0	49.5	55.8	60.0	67.5	78.0
	-1	12.2	19.6	23.5	27.0	32.3	37.8	40.0	45.6	54.0	61.2	66.0	77.5	87.0
	-2	12.4	20.4	24.5	28.2	34.5	39.6	43.0	49.2	57.0	66.6	72.0	85.0	99.0
7.5 % discharge variation	2	10.2	16.0	18.5	21.0	24.0	27.0	29.0	31.2	36.0	37.8	40.0	45.0	48.0
	1	10.6	16.4	19.5	22.2	26.3	29.7	31.0	34.8	39.0	43.2	46.0	52.5	57.0
	0	10.8	17.2	20.5	23.4	27.8	31.5	34.0	38.4	45.0	50.4	54.0	62.5	69.0
	-1	11.0	18.0	21.5	24.6	30.0	34.2	37.0	42.0	49.5	55.8	60.0	70.0	81.0
	-2	11.4	18.8	22.5	25.8	31.5	36.9	39.0	45.6	54.0	61.2	66.0	80.0	93.0
14 lph														
10 % discharge variation	2	8.0	12.4	15.0	16.8	19.5	22.5	24.0	26.4	30.0	32.4	34.0	40.0	42.0
	1	8.2	12.8	15.5	17.4	20.3	23.4	25.0	27.6	31.5	36.0	38.0	42.5	48.0
	0	8.2	13.2	15.5	18.0	21.0	24.3	26.0	28.8	33.0	37.8	40.0	47.5	54.0
	-1	8.4	13.6	16.0	18.6	21.8	25.2	27.0	31.2	36.0	39.6	44.0	50.0	57.0
	-2	8.4	13.6	16.5	19.2	22.5	26.1	28.0	32.4	37.5	43.2	46.0	55.0	63.0
7.5 % discharge variation	2	7.2	11.2	13.0	15.0	17.3	19.8	21.0	22.8	25.5	28.8	30.0	35.0	36.0
	1	7.4	11.6	13.5	15.6	18.0	20.7	22.0	25.2	28.5	30.6	34.0	37.5	42.0
	0	7.4	12.0	14.0	16.2	19.5	21.6	23.0	26.4	30.0	34.2	36.0	42.5	48.0
	-1	7.6	12.0	14.5	16.8	20.3	23.4	25.0	27.6	33.0	36.0	40.0	47.5	54.0
	-2	7.6	12.4	15.0	17.4	21.0	24.3	26.0	30.0	34.5	39.6	42.0	50.0	57.0

Note: Inlet Pressure: 1.0 kg/cm²; + slope : Uphill, - slope : Downhill

Maximum Running Length for J-Turbo Key Plus™

16 mm tube (13.8 mm ID tube) at 1.0 kg/cm²

Dripper Spacing		20 cm	40 cm	50 cm	60 cm	75 cm	90 cm	100 cm	120 cm	150 cm	180 cm	200 cm	250 cm	300 cm
Slope, %		Length (m)												
2 lph														
10 % discharge variation	2	39.6	56.4	63.0	68.4	74.3	79.2	81.0	84.0	87.0	90.0	92.0	92.5	93.0
	1	43.6	66.0	76.5	85.2	97.5	107.1	112.0	121.2	132.0	142.2	146.0	157.5	165.0
	0	47.4	76.0	91.0	103.8	123.0	140.4	151.0	170.4	196.5	221.4	238.0	277.5	312.0
	-1	51.4	86.0	105.0	122.4	149.3	173.7	189.0	218.4	261.0	300.6	330.0	397.5	462.0
	-2	55.0	95.6	118.0	139.2	171.8	203.4	222.0	259.2	313.5	338.6	380.0	450.0	517.0
7.5 % discharge variation	2	34.6	48.0	53.0	56.4	60.8	63.9	65.0	67.2	69.0	70.2	72.0	72.5	72.0
	1	38.6	58.0	67.0	73.8	83.3	90.9	95.0	102.0	111.0	117.0	120.0	127.5	132.0
	0	42.8	68.8	82.0	94.2	111.8	126.9	136.0	153.6	178.5	199.8	216.0	250.0	282.0
	-1	47.0	79.6	97.5	114.0	139.5	163.8	178.0	206.4	247.5	286.2	314.0	382.5	444.0
	-2	51.2	89.6	112.0	132.0	164.3	195.3	213.0	250.8	294.5	300.0	330.0	385.0	440.0
4 lph														
10 % discharge variation	2	27.0	40.4	46.5	51.0	57.8	63.0	65.0	69.6	75.0	79.2	82.0	85.0	87.0
	1	28.6	44.4	52.0	58.2	67.5	75.6	80.0	87.6	97.5	106.2	112.0	122.5	132.0
	0	30.2	48.4	58.0	66.0	78.0	89.1	96.0	108.0	124.5	140.4	152.0	175.0	198.0
	-1	31.8	52.4	63.5	73.8	88.5	103.5	111.0	128.4	151.5	174.6	190.0	227.5	261.0
	-2	33.4	56.4	69.0	81.0	99.0	116.1	126.0	146.4	175.5	203.4	224.0	270.0	315.0
7.5 % discharge variation	2	23.8	34.8	40.0	43.8	48.8	52.2	54.0	57.6	61.5	63.0	66.0	67.5	69.0
	1	25.6	39.2	46.0	51.6	59.3	65.7	69.0	75.6	84.0	91.8	96.0	105.0	111.0
	0	27.2	43.6	52.0	59.4	70.5	81.0	86.0	97.2	112.5	127.8	136.0	157.5	177.0
	-1	29.0	48.0	58.5	67.8	82.5	95.4	104.0	120.0	142.5	163.8	178.0	215.0	249.0
	-2	30.6	52.4	64.5	75.6	93.0	109.8	119.0	139.2	168.0	194.4	214.0	255.0	296.0
8 lph														
10 % discharge variation	2	17.8	27.2	32.0	36.0	41.3	45.9	48.0	52.8	58.5	63.0	66.0	70.0	75.0
	1	18.6	29.2	34.5	39.0	45.0	51.3	54.0	60.0	67.5	75.6	80.0	90.0	99.0
	0	19.2	30.8	36.5	42.0	49.5	56.7	61.0	68.4	79.5	88.2	96.0	110.0	126.0
	-1	19.8	32.4	39.0	45.0	54.0	62.1	67.0	76.8	90.0	102.6	112.0	132.5	153.0
	-2	20.4	34.0	41.5	48.0	58.5	67.5	73.0	84.0	100.5	115.2	126.0	152.5	177.0
7.5 % discharge variation	2	16.0	24.0	28.0	31.2	36.0	39.6	41.0	44.4	49.5	52.2	54.0	57.5	60.0
	1	16.6	26.0	30.5	34.8	40.5	45.0	48.0	52.8	60.0	64.8	70.0	77.5	84.0
	0	17.4	27.6	33.0	37.8	45.0	51.3	55.0	62.4	72.0	81.0	86.0	100.0	114.0
	-1	18.0	29.6	35.5	41.4	49.5	57.6	62.0	70.8	84.0	95.4	104.0	122.5	141.0
	-2	18.6	31.2	38.0	44.4	54.0	63.0	68.0	79.2	94.5	109.8	120.0	145.0	168.0
14 lph														
10 % discharge variation	2	12.6	19.6	23.0	25.8	30.0	34.2	36.0	39.6	45.0	48.6	50.0	57.5	60.0
	1	13.0	20.4	24.0	27.6	32.3	36.9	39.0	43.2	49.5	54.0	58.0	65.0	72.0
	0	13.2	21.2	25.5	28.8	34.5	39.6	42.0	46.8	54.0	61.2	66.0	77.5	87.0
	-1	13.6	22.0	26.5	30.6	36.0	42.3	45.0	51.6	60.0	68.4	74.0	87.5	99.0
	-2	13.8	22.8	27.5	31.8	38.3	44.1	48.0	55.2	64.5	73.8	80.0	97.5	111.0
7.5 % discharge variation	2	11.4	17.6	20.5	22.8	26.3	29.7	31.0	34.8	37.5	41.4	44.0	47.5	51.0
	1	11.6	18.4	21.5	24.6	28.5	32.4	34.0	38.4	43.5	48.6	52.0	57.5	63.0
	0	12.0	19.2	23.0	26.4	30.8	35.1	38.0	43.2	49.5	55.8	60.0	70.0	78.0
	-1	12.4	20.0	24.0	27.6	33.0	37.8	41.0	46.8	55.5	63.0	68.0	80.0	90.0
	-2	12.6	20.8	25.5	29.4	35.3	41.4	44.0	51.6	60.0	70.2	76.0	90.0	105.0

Note: Inlet Pressure: 1.0 kg/cm²; + slope : Uphill, - slope : Downhill

Maximum Running Length for J-Turbo Key Plus™



20 mm tube (17.6 mm ID tube) at 1.0 kg/cm²

Dripper Spacing		20 cm	40 cm	50 cm	60 cm	75 cm	90 cm	100 cm	120 cm	150 cm	180 cm	200 cm	250 cm	300 cm
Slope, %		Length (m)												
2 lph														
10 % discharge variation	2	54.4	72.0	78.0	82.2	86.3	89.1	90.0	92.4	93.0	95.4	96.0	95.0	96.0
	1	63.0	92.4	105.5	115.8	129.0	138.6	144.0	152.4	162.0	167.4	172.0	177.5	183.0
	0	72.0	115.6	138.0	157.8	186.8	213.3	229.0	259.2	298.5	336.6	362.0	420.0	474.0
	-1	80.8	138.0	170.0	199.2	244.5	288.0	314.0	366.0	439.5	511.2	560.0	680.0	258.0
	-2	89.2	158.4	198.0	234.6	292.5	347.6	413.0	491.2	585.5	696.4	824.0	969.5	1131.0
7.5 % discharge variation	2	46.2	59.2	63.5	66.0	68.3	70.2	71.0	72.0	72.0	73.8	74.0	72.5	75.0
	1	55.4	79.6	90.0	97.8	107.3	114.3	118.0	123.6	129.0	133.2	136.0	140.0	141.0
	0	65.0	104.4	124.5	142.8	168.8	193.5	207.0	234.0	270.0	304.2	328.0	380.0	429.0
	-1	74.8	128.8	159.5	187.8	231.8	273.6	299.0	349.2	421.5	491.4	560.0	680.0	174.0
	-2	84.0	151.2	190.0	226.2	296.8	351.1	407.0	485.2	584.0	696.4	824.0	969.5	1131.0
4 lph														
10 % discharge variation	2	38.6	55.2	62.0	67.2	73.5	77.4	80.0	84.0	87.0	90.0	90.0	92.5	93.0
	1	42.2	64.0	74.5	82.8	94.5	104.4	109.0	118.8	130.5	138.6	144.0	155.0	162.0
	0	45.8	73.6	87.5	100.2	119.3	135.9	146.0	164.4	190.5	214.2	230.0	267.5	300.0
	-1	49.4	82.8	101.0	117.6	143.3	167.4	181.0	210.0	250.5	288.0	316.0	380.0	441.0
	-2	53.0	91.6	113.5	133.2	165.0	194.4	212.0	248.4	298.5	351.2	407.0	485.2	584.0
7.5 % discharge variation	2	33.6	46.8	52.0	55.8	60.0	63.0	64.0	66.0	69.0	70.2	70.0	72.5	72.0
	1	37.4	56.4	65.0	72.0	81.8	89.1	93.0	100.8	108.0	115.2	118.0	125.0	129.0
	0	41.4	66.4	79.5	90.6	107.3	123.3	132.0	148.8	172.5	192.6	208.0	242.5	273.0
	-1	45.4	76.4	93.5	109.2	133.5	156.6	170.0	198.0	237.0	273.6	302.0	365.0	426.0
	-2	49.2	86.0	107.0	126.6	156.8	186.3	204.0	238.8	287.5	330.0	368.0	441.0	521.0
8 lph														
10 % discharge variation	2	26.2	39.2	45.0	49.8	56.3	61.2	64.0	68.4	73.5	77.4	80.0	85.0	87.0
	1	27.6	42.8	50.5	56.4	66.0	73.8	78.0	85.2	96.0	104.4	110.0	120.0	129.0
	0	29.2	46.8	56.0	63.6	75.8	86.4	92.0	104.4	120.0	135.0	146.0	170.0	192.0
	-1	30.6	50.4	61.0	70.8	85.5	99.0	107.0	123.6	145.5	167.4	182.0	217.5	252.0
	-2	32.0	54.0	66.5	77.4	94.5	111.6	121.0	140.4	168.0	194.4	214.0	257.5	300.0
7.5 % discharge variation	2	23.2	34.0	39.0	42.6	48.0	51.3	53.0	56.4	60.0	63.0	64.0	67.5	69.0
	1	24.8	38.0	44.5	49.8	57.8	63.9	68.0	74.4	82.5	88.2	94.0	102.5	108.0
	0	26.4	42.0	50.5	57.6	68.3	78.3	84.0	94.8	109.5	122.4	132.0	152.5	171.0
	-1	28.0	46.4	56.0	65.4	78.8	91.8	99.0	115.2	136.5	156.6	170.0	205.0	237.0
	-2	29.6	50.4	62.0	72.6	89.3	105.3	114.0	133.2	160.5	187.2	204.0	250.0	299.0
14 lph														
10 % discharge variation	2	18.8	28.8	33.5	37.2	42.8	47.7	50.0	54.0	60.0	64.8	68.0	72.5	78.0
	1	19.4	30.4	36.0	40.8	47.3	53.1	57.0	63.6	72.0	79.2	84.0	92.5	102.0
	0	20.2	32.4	38.5	44.4	52.5	59.4	64.0	72.0	84.0	93.6	100.0	117.5	132.0
	-1	21.0	34.0	41.0	47.4	57.0	65.7	71.0	81.6	96.0	109.8	118.0	140.0	162.0
	-2	21.6	36.0	44.0	51.0	61.5	72.0	78.0	90.0	106.5	122.4	134.0	162.5	189.0
7.5 % discharge variation	2	16.8	25.2	29.5	32.4	36.8	40.5	43.0	46.8	51.0	54.0	56.0	60.0	63.0
	1	17.4	27.2	32.0	36.0	42.0	46.8	50.0	55.2	63.0	68.4	72.0	80.0	87.0
	0	18.2	29.2	35.0	39.6	47.3	54.0	58.0	64.8	75.0	84.6	92.0	105.0	120.0
	-1	19.0	31.2	37.5	43.8	52.5	60.3	65.0	75.6	88.5	100.8	110.0	130.0	150.0
	-2	19.8	33.2	40.5	47.4	57.8	67.5	73.0	84.0	100.5	117.0	128.0	155.0	180.0

Note: Inlet Pressure: 1.0 kg/cm²; + slope : Uphill, - slope : Downhill



12 mm tube (10.2 mm ID tube) at 1.0 kg/cm²

Dripper Spacing		20 cm	40 cm	50 cm	60 cm	75 cm	90 cm	100 cm	120 cm	150 cm	180 cm	200 cm	250 cm	300 cm
Slope, %		Length,m												
2 lph														
10 % discharge variation	2	26.6	39.6	45.5	50.4	57.0	62.1	65.0	69.6	75.0	79.2	80.0	85.0	87.0
	1	28.2	43.6	51.0	57.6	66.8	74.7	79.0	86.4	97.5	106.2	112.0	122.5	132.0
	0	29.6	47.6	57.0	64.8	77.3	88.2	94.0	106.8	123.0	138.6	148.0	172.5	195.0
	-1	31.2	51.6	62.5	72.0	87.0	100.8	109.0	126.0	148.5	171.0	186.0	222.5	258.0
	-2	32.6	55.2	68.0	79.2	96.8	113.4	123.0	144.0	172.5	199.8	218.0	265.0	309.0
7.5 % discharge variation	2	23.4	34.4	39.5	43.2	48.0	52.2	54.0	57.6	61.5	63.0	64.0	67.5	69.0
	1	25.2	38.8	45.0	51.0	58.5	64.8	69.0	75.6	84.0	90.0	94.0	102.5	111.0
	0	26.8	42.8	51.5	58.8	69.8	79.2	85.0	96.0	111.0	124.2	134.0	155.0	174.0
	-1	28.4	47.2	57.5	66.6	81.0	93.6	102.0	117.6	139.5	160.2	174.0	210.0	243.0
	-2	30.2	51.2	63.5	74.4	91.5	107.1	117.0	136.8	163.5	190.8	210.0	255.0	99.0
4 lph														
10 % discharge variation	2	17.6	26.8	31.5	35.4	40.5	45.0	47.0	51.6	57.0	61.2	64.0	70.0	75.0
	1	18.2	28.4	34.0	38.4	45.0	50.4	53.0	60.0	67.5	73.8	78.0	87.5	96.0
	0	18.8	30.0	36.0	41.4	48.8	55.8	60.0	67.2	78.0	88.2	94.0	110.0	123.0
	-1	19.4	31.6	38.5	44.4	53.3	61.2	66.0	75.6	88.5	100.8	110.0	130.0	150.0
	-2	20.0	33.2	40.5	46.8	57.0	66.6	72.0	82.8	99.0	113.4	124.0	147.5	171.0
7.5 % discharge variation	2	15.6	24.0	27.5	30.6	35.3	38.7	41.0	44.4	48.0	52.2	54.0	57.5	60.0
	1	16.4	25.6	30.0	34.2	39.8	44.1	47.0	52.8	58.5	64.8	68.0	77.5	84.0
	0	17.0	27.2	32.5	37.2	44.3	50.4	54.0	61.2	70.5	79.2	84.0	97.5	111.0
	-1	17.6	28.8	35.0	40.2	48.8	55.8	61.0	69.6	81.0	93.6	102.0	120.0	138.0
	-2	18.4	30.8	37.5	43.8	53.3	62.1	67.0	78.0	93.0	106.2	118.0	140.0	165.0
8 lph														
10 % discharge variation	2	11.4	18.0	21.0	23.4	27.8	30.6	33.0	36.0	40.5	45.0	48.0	52.5	57.0
	1	11.6	18.4	22.0	24.6	29.3	33.3	35.0	39.6	45.0	50.4	54.0	60.0	66.0
	0	12.0	19.2	23.0	25.8	30.8	35.1	38.0	42.0	49.5	55.8	60.0	67.5	78.0
	-1	12.2	19.6	23.5	27.0	32.3	37.8	40.0	45.6	54.0	61.2	66.0	77.5	87.0
	-2	12.4	20.4	24.5	28.2	34.5	39.6	43.0	49.2	57.0	66.6	72.0	85.0	99.0
7.5 % discharge variation	2	10.2	16.0	18.5	21.0	24.0	27.0	29.0	31.2	36.0	37.8	40.0	45.0	48.0
	1	10.6	16.4	19.5	22.2	26.3	29.7	31.0	34.8	39.0	43.2	46.0	52.5	57.0
	0	10.8	17.2	20.5	23.4	27.8	31.5	34.0	38.4	45.0	50.4	54.0	62.5	69.0
	-1	11.0	18.0	21.5	24.6	30.0	34.2	37.0	42.0	49.5	55.8	60.0	70.0	81.0
	-2	11.4	18.8	22.5	25.8	31.5	36.9	39.0	45.6	54.0	61.2	66.0	80.0	93.0
15 lph														
10 % discharge variation	2	7.6	12.0	14.0	16.2	18.8	21.6	23.0	25.2	28.5	32.4	34.0	37.5	42.0
	1	7.8	12.4	14.5	16.8	19.5	22.5	24.0	26.4	30.0	34.2	36.0	42.5	45.0
	0	7.8	12.4	15.0	17.4	20.3	23.4	25.0	27.6	31.5	36.0	38.0	45.0	51.0
	-1	8.0	12.8	15.5	17.4	21.0	24.3	26.0	28.8	34.5	37.8	42.0	47.5	54.0
	-2	8.0	13.2	16.0	18.0	21.8	25.2	27.0	31.2	36.0	41.4	44.0	52.5	60.0
7.5 % discharge variation	2	6.8	10.8	12.5	14.4	16.5	18.9	20.0	21.6	25.5	27.0	30.0	32.5	36.0
	1	7.0	11.2	13.0	15.0	17.3	19.8	21.0	24.0	27.0	30.6	32.0	37.5	39.0
	0	7.2	11.2	13.5	15.6	18.0	20.7	22.0	25.2	28.5	32.4	34.0	40.0	45.0
	-1	7.2	11.6	14.0	16.2	18.8	21.6	23.0	26.4	31.5	34.2	38.0	45.0	51.0
	-2	7.4	12.0	14.5	16.8	19.5	22.5	25.0	27.6	33.0	37.8	40.0	47.5	54.0

Note : Inlet Pressure: 1.0 kg / cm²; + slope : Uphill, - slope : Downhill

Maximum Running Length for J-Loc®



16mm tube (13.8 mm ID tube) at 1.0 kg/cm²

Dripper Spacing		20 cm	40 cm	50 cm	60 cm	75 cm	90 cm	100 cm	120 cm	150 cm	180 cm	200 cm	250 cm	300 cm
Slope, %		Length,m												
2 lph														
10 % discharge variation	2	39.6	56.4	63.0	68.4	74.3	79.2	81.0	84.0	87.0	90.0	92.0	92.5	93.0
	1	43.6	66.0	76.5	85.2	97.5	107.1	112.0	121.2	132.0	142.2	146.0	157.5	165.0
	0	47.4	76.0	91.0	103.8	123.0	140.4	151.0	170.4	196.5	221.4	238.0	277.5	312.0
	-1	51.4	86.0	105.0	122.4	149.3	173.7	189.0	218.4	261.0	300.6	330.0	397.5	462.0
	-2	55.0	95.6	118.0	139.2	171.8	203.4	222.0	259.2	313.5	338.6	380.0	450.0	517.0
7.5 % discharge variation	2	34.6	48.0	53.0	56.4	60.8	63.9	65.0	67.2	69.0	70.2	72.0	72.5	72.0
	1	38.6	58.0	67.0	73.8	83.3	90.9	95.0	102.0	111.0	117.0	120.0	127.5	132.0
	0	42.8	68.8	82.0	94.2	111.8	126.9	136.0	153.6	178.5	199.8	216.0	250.0	282.0
	-1	47.0	79.6	97.5	114.0	139.5	163.8	178.0	206.4	247.5	286.2	314.0	382.5	444.0
	-2	51.2	89.6	112.0	132.0	164.3	195.3	213.0	250.8	294.5	300.0	330.0	385.0	440.0
4 lph														
10 % discharge variation	2	27.0	40.4	46.5	51.0	57.8	63.0	65.0	69.6	75.0	79.2	82.0	85.0	87.0
	1	28.6	44.4	52.0	58.2	67.5	75.6	80.0	87.6	97.5	106.2	112.0	122.5	132.0
	0	30.2	48.4	58.0	66.0	78.0	89.1	96.0	108.0	124.5	140.4	152.0	175.0	198.0
	-1	31.8	52.4	63.5	73.8	88.5	103.5	111.0	128.4	151.5	174.6	190.0	227.5	261.0
	-2	33.4	56.4	69.0	81.0	99.0	116.1	126.0	146.4	175.5	203.4	224.0	270.0	315.0
7.5 % discharge variation	2	23.8	34.8	40.0	43.8	48.8	52.2	54.0	57.6	61.5	63.0	66.0	67.5	69.0
	1	25.6	39.2	46.0	51.6	59.3	65.7	69.0	75.6	84.0	91.8	96.0	105.0	111.0
	0	27.2	43.6	52.0	59.4	70.5	81.0	86.0	97.2	112.5	127.8	136.0	157.5	177.0
	-1	29.0	48.0	58.5	67.8	82.5	95.4	104.0	120.0	142.5	163.8	178.0	215.0	249.0
	-2	30.6	52.4	64.5	75.6	93.0	109.8	119.0	139.2	168.0	194.4	214.0	255.0	296.0
8 lph														
10 % discharge variation	2	17.8	27.2	32.0	36.0	41.3	45.9	48.0	52.8	58.5	63.0	66.0	70.0	75.0
	1	18.6	29.2	34.5	39.0	45.0	51.3	54.0	60.0	67.5	75.6	80.0	90.0	99.0
	0	19.2	30.8	36.5	42.0	49.5	56.7	61.0	68.4	79.5	88.2	96.0	110.0	126.0
	-1	19.8	32.4	39.0	45.0	54.0	62.1	67.0	76.8	90.0	102.6	112.0	132.5	153.0
	-2	20.4	34.0	41.5	48.0	58.5	67.5	73.0	84.0	100.5	115.2	126.0	152.5	177.0
7.5 % discharge variation	2	16.0	24.0	28.0	31.2	36.0	39.6	41.0	44.4	49.5	52.2	54.0	57.5	60.0
	1	16.6	26.0	30.5	34.8	40.5	45.0	48.0	52.8	60.0	64.8	70.0	77.5	84.0
	0	17.4	27.6	33.0	37.8	45.0	51.3	55.0	62.4	72.0	81.0	86.0	100.0	114.0
	-1	18.0	29.6	35.5	41.4	49.5	57.6	62.0	70.8	84.0	95.4	104.0	122.5	141.0
	-2	18.6	31.2	38.0	44.4	54.0	63.0	68.0	79.2	94.5	109.8	120.0	145.0	168.0
15 lph														
10 % discharge variation	2	12.2	18.8	22.0	25.2	29.3	32.4	34.0	38.4	42.0	46.8	50.0	55.0	60.0
	1	12.4	19.6	23.0	26.4	30.8	35.1	37.0	42.0	48.0	52.2	56.0	62.5	69.0
	0	12.6	20.4	24.0	27.6	33.0	37.8	40.0	45.6	52.5	59.4	64.0	72.5	81.0
	-1	13.0	20.8	25.0	28.8	34.5	39.6	43.0	49.2	57.0	64.8	70.0	82.5	93.0
	-2	13.2	21.6	26.0	30.6	36.8	42.3	46.0	52.8	61.5	70.2	76.0	92.5	105.0
7.5 % discharge variation	2	10.8	16.8	19.5	22.2	25.5	28.8	30.0	33.6	37.5	39.6	42.0	47.5	51.0
	1	11.2	17.6	20.5	23.4	27.8	31.5	33.0	37.2	42.0	46.8	50.0	55.0	60.0
	0	11.4	18.4	22.0	25.2	29.3	33.3	36.0	40.8	46.5	52.2	56.0	65.0	75.0
	-1	11.8	19.2	23.0	26.4	31.5	36.0	39.0	44.4	52.5	59.4	64.0	75.0	87.0
	-2	12.0	20.0	24.0	27.6	33.8	38.7	42.0	48.0	57.0	66.6	72.0	85.0	99.0

Note : Inlet Pressure: 1.0 kg / cm²; + slope : Uphill, - slope : Downhill

Maximum Running Length for J-Loc®



20mm tube (17.6 mm ID tube) at 1.0 kg/cm²

Dripper Spacing		20 cm	40 cm	50 cm	60 cm	75 cm	90 cm	100 cm	120 cm	150 cm	180 cm	200 cm	250 cm	300 cm
Slope, %		Length,m												
2 lph														
10 % discharge variation	2	54.4	72.0	78.0	82.2	86.3	89.1	90.0	92.4	93.0	95.4	96.0	95.0	96.0
	1	63.0	92.4	105.5	115.8	129.0	138.6	144.0	152.4	162.0	167.4	172.0	177.5	183.0
	0	72.0	115.6	138.0	157.8	186.8	213.3	229.0	259.2	298.5	336.6	362.0	420.0	474.0
	-1	80.8	138.0	170.0	199.2	244.5	288.0	314.0	366.0	439.5	511.2	560.0	680.0	258.0
	-2	89.2	158.4	198.0	234.6	292.5	347.6	431.0	521.2	615.5	713.4	812.0	912.5	1011.0
7.5 % discharge variation	2	46.2	59.2	63.5	66.0	68.3	70.2	71.0	72.0	72.0	73.8	74.0	72.5	75.0
	1	55.4	79.6	90.0	97.8	107.3	114.3	118.0	123.6	129.0	133.2	136.0	140.0	141.0
	0	65.0	104.4	124.5	142.8	168.8	193.5	207.0	234.0	270.0	304.2	328.0	380.0	429.0
	-1	74.8	128.8	159.5	187.8	231.8	273.6	299.0	349.2	421.5	491.4	560.0	680.0	174.0
	-2	84.0	151.2	190.0	226.2	296.8	359.1	437.0	528.0	632.0	748.0	876.0	1006.5	1138.0
4 lph														
10 % discharge variation	2	38.6	55.2	62.0	67.2	73.5	77.4	80.0	84.0	87.0	90.0	90.0	92.5	93.0
	1	42.2	64.0	74.5	82.8	94.5	104.4	109.0	118.8	130.5	138.6	144.0	155.0	162.0
	0	45.8	73.6	87.5	100.2	119.3	135.9	146.0	164.4	190.5	214.2	230.0	267.5	300.0
	-1	49.4	82.8	101.0	117.6	143.3	167.4	181.0	210.0	250.5	288.0	316.0	380.0	441.0
	-2	53.0	91.6	113.5	133.2	165.0	194.4	212.0	248.4	298.5	351.2	402.0	472.5	541.0
7.5 % discharge variation	2	33.6	46.8	52.0	55.8	60.0	63.0	64.0	66.0	69.0	70.2	70.0	72.5	72.0
	1	37.4	56.4	65.0	72.0	81.8	89.1	93.0	100.8	108.0	115.2	118.0	125.0	129.0
	0	41.4	66.4	79.5	90.6	107.3	123.3	132.0	148.8	172.5	192.6	208.0	242.5	273.0
	-1	45.4	76.4	93.5	109.2	133.5	156.6	170.0	198.0	237.0	273.6	302.0	365.0	426.0
	-2	49.2	86.0	107.0	126.6	156.8	186.3	204.0	238.8	277.5	319.0	358.0	438.5	504.0
8 lph														
10 % discharge variation	2	26.2	39.2	45.0	49.8	56.3	61.2	64.0	68.4	73.5	77.4	80.0	85.0	87.0
	1	27.6	42.8	50.5	56.4	66.0	73.8	78.0	85.2	96.0	104.4	110.0	120.0	129.0
	0	29.2	46.8	56.0	63.6	75.8	86.4	92.0	104.4	120.0	135.0	146.0	170.0	192.0
	-1	30.6	50.4	61.0	70.8	85.5	99.0	107.0	123.6	145.5	167.4	182.0	217.5	252.0
	-2	32.0	54.0	66.5	77.4	94.5	111.6	121.0	140.4	168.0	194.4	214.0	257.5	300.0
7.5 % discharge variation	2	23.2	34.0	39.0	42.6	48.0	51.3	53.0	56.4	60.0	63.0	64.0	67.5	69.0
	1	24.8	38.0	44.5	49.8	57.8	63.9	68.0	74.4	82.5	88.2	94.0	102.5	108.0
	0	26.4	42.0	50.5	57.6	68.3	78.3	84.0	94.8	109.5	122.4	132.0	152.5	171.0
	-1	28.0	46.4	56.0	65.4	78.8	91.8	99.0	115.2	136.5	156.6	170.0	205.0	237.0
	-2	29.6	50.4	62.0	72.6	89.3	105.3	114.0	133.2	160.5	187.2	204.0	250.0	299.0
15 lph														
10 % discharge variation	2	18.0	27.6	32.0	36.0	41.3	45.9	48.0	52.8	58.5	63.0	66.0	70.0	75.0
	1	18.6	29.2	34.5	39.0	45.8	51.3	55.0	61.2	69.0	75.6	80.0	90.0	99.0
	0	19.4	30.8	37.0	42.0	50.3	56.7	61.0	69.6	79.5	90.0	96.0	112.5	126.0
	-1	20.0	32.4	39.5	45.6	54.0	63.0	68.0	76.8	91.5	104.4	112.0	132.5	153.0
	-2	20.6	34.4	41.5	48.6	58.5	68.4	74.0	85.2	100.5	117.0	128.0	152.5	177.0
7.5 % discharge variation	2	16.0	24.4	28.0	31.2	36.0	39.6	41.0	45.6	49.5	52.2	54.0	57.5	60.0
	1	16.8	26.0	31.0	34.8	40.5	45.0	48.0	52.8	60.0	66.6	70.0	77.5	84.0
	0	17.4	28.0	33.5	38.4	45.0	51.3	55.0	62.4	72.0	81.0	88.0	100.0	114.0
	-1	18.2	29.6	36.0	41.4	50.3	57.6	62.0	70.8	84.0	95.4	104.0	125.0	144.0
	-2	18.8	31.6	38.5	45.0	54.8	63.9	69.0	80.4	96.0	109.8	120.0	145.0	168.0

Note : Inlet Pressure: 1.0 kg / cm²; + slope : Uphill, - slope : Downhill

J-Turbo Line® Super Emitter



Maximum Recommended Length (m), 16mm (14.2mm ID), Class 2 at 1 kg/cm² inlet pressure

Dripper Spacing		15 cm	20 cm	30 cm	40 cm	50 cm	60 cm	75 cm	90 cm	100 cm
	Slope, %	Length,m								
Discharge: 2.2 lph										
10 % discharge variation	2	33.6	39.6	49.5	57.2	63.0	67.8	73.5	78.3	81.0
	1	36.1	43.4	55.8	66.4	75.5	84.0	94.5	103.5	110.0
	0	38.7	47.2	62.7	76.4	89.0	101.4	117.8	134.1	145.0
	-1	41.2	50.8	69.3	86.4	102.0	118.2	141.0	163.8	180.0
	-2	43.6	54.6	75.6	96.0	114.5	133.8	162.0	190.8	210.0
7.5 % discharge variation	2	29.4	34.4	42.6	48.4	53.0	56.4	60.8	63.9	65.0
	1	32.2	38.4	49.5	58.4	66.0	72.6	81.8	89.1	94.0
	0	34.9	42.6	56.7	69.2	80.5	91.2	106.5	121.5	131.0
	-1	37.8	46.6	63.9	80.0	95.0	109.8	132.0	153.9	169.0
	-2	40.5	50.6	70.8	90.4	108.5	127.2	154.5	181.8	201.0
Discharge: 4.0 lph										
10 % discharge variation	2	25.0	29.8	38.1	44.4	50.0	54.6	61.5	66.6	70.0
	1	26.4	31.8	41.4	49.6	57.0	63.6	72.8	81.9	87.0
	0	27.7	33.8	44.7	54.4	63.5	72.6	85.5	99.0	107.0
	-1	28.9	35.6	48.3	59.6	70.5	81.0	97.5	115.2	126.0
	-2	30.3	37.6	51.6	64.4	77.0	90.0	109.5	130.5	143.0
7.5 % discharge variation	2	22.2	26.4	33.3	38.4	43.0	46.8	51.8	55.8	58.0
	1	23.7	28.4	36.9	44.0	50.0	55.8	63.8	71.1	76.0
	0	25.0	30.6	40.5	49.2	57.5	65.4	77.3	89.1	96.0
	-1	26.5	32.6	44.1	54.8	65.0	75.0	90.8	107.1	117.0
	-2	27.9	34.8	48.0	60.0	72.0	84.0	102.8	123.3	136.0
Note: + slope : Uphill, - slope : Downhill										



NOTES :

[illegible]

Brand Equity



Micro Irrigation Systems, Equipment & Agri Inputs



More Crop Per Drop®

Plastic Products



Your Lifeline to Prosperity®

Green Energy Products



Our Joint Venture with Nature®

Food Products



Social Profile



More Crop Per Drop®



**We revere these elements of our universe.
They reflect our ethos.**

Yellow, Green, Blue and Brown are colours of Nature and have been embodied in our logo. They encapsulate the conviction of the Founder and the lasting commitment of the Corporation to agriculture. Jain Irrigation is striving to add value to the entire agri-chain. At the same time, they produce and process a complete range of agri-products for the exacting world markets and growing domestic clientele.

The Corporation is poised to grow and attain water, food and energy security.



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