



AGRICULTURE CATALOG

DRIPLINE

EXCEL™ Pressure Compensating Dripline

Excel™ pressure compensating dripline delivers and maintains constant flow uniformity at variable inlet pressures regardless of elevation and operating pressure variation along the line.

Features

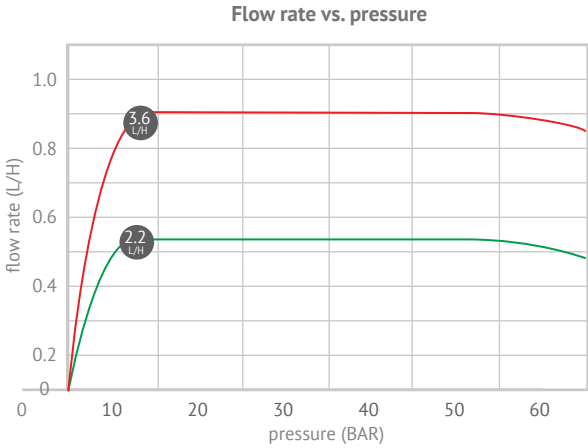
- Two flow rates for maximum flexibility in a variety of applications
- Made of high strength, low-density premium polyethylene resins with UV resistance
- Continuously self-cleaning silicone diaphragm ensures that flow is not interrupted by debris in the water
- Elevated filter design with turbulent flow helps reduce clogging regardless of installation instructions
- The drip emitter and diaphragm are self-contained units that are molded into the interior wall of the tubing
- Made of three individual sections; cylindrical plastic housing with labyrinth water passage, floating silicon diaphragm and plastic receptacle
- Resistant to chemicals and fertilizers commonly used in agriculture and landscape
- One inlet and two outlets per emitter

Specifications

- Operating pressure: .8-3.5 BAR (12-50 PSI)
- Flow rates:
 - 2.2 L/H (.58 GPH) - color code: orange
 - 3.6 L/H (.95 GPH) - color code: gray
- Dripline color: black
- 14.5 mm ID x 16.2 mm OD (.530 ID x .640 OD)
- Spacing: 30 cm - 72 cm
- Available wall thickness of 35, 40 and 50 mm
- Available in 300 and 400 m coils
- Minimum bending radius: 30 cm (1')
- Filter requirement: minimum of 150 mesh



Maximum single lateral length			
Pressure PSI (BAR)	Dripper spacing		
	30 cm	45 cm	60 cm
Flow rate 2.2 L/H (.58 GPH)			
1.0 BAR (15)	53 m (175')	72 m (238')	92 m (304')
1.7 BAR (25)	72 m (238')	115 m (380')	149 m (492')
2.4 BAR (35)	102 m (337')	139 m (459')	185 m (611')
3.2 BAR (45)	114 m (376')	152 m 502'	202 m 667'
Flow rate 3.6 L/H (.95 GPH)			
1.0 BAR (15)	48 m (158')	54 m (178')	68 m (224')
1.7 BAR (25)	64 m (211')	92 m (304')	112 m (370')
2.4 BAR (35)	75 m (248')	102 m (337')	135 m (446')
3.2 BAR (45)	88 m (290')	115 m (380')	145 m (479')



How to order		
Model	Description	Color
16 mm PC dripline • .670" OD		
A5-1X	300 and 400 m 2.2 L/H	Black
A1-1X	300 and 400 m 3.6 L/H	Black

MICROLINE™ DRIPLINE

1/4" Microline

DIG 1/4" Microline™ Dripline is a versatile and flexible, UV-protected small-diameter dripline that is suitable for a wide range of irrigation applications, both commercial and residential. The dripline may be installed above ground and covered with mulch or bark to conserve water or for aesthetic reasons.

Features

- Used above ground or under mulch for a variety of applications such as containers and narrow plantings
- Large labyrinth water passage and turbulent flow help reduce clogging
- Inlet filter helps prevent particles from entering the drip emitter labyrinth path
- Resistant to chemicals and fertilizers commonly used in landscape applications
- Use with 6 mm (1/4") barbed fittings
- Flexible tubing for easy installation
- Two outlets per drip emitter ensure less chance of clogging



Pressure vs. flow			
Pressure (BAR)	Flow (L/H)	Pressure (PSI)	Flow (GPH)
0.7	1.6	10	0.42
1.0	2.0	15	0.52
1.4	2.2	20	0.58
1.7	2.5	25	0.65

Specifications

- Operating pressure: .7-1.7 BAR (10-25 PSI)
- Flow rates: 1.97 L/H (.52 GPH) at 1 BAR (15 PSI)
- Dripline color code: black or brown
- Dripper color code: blue
- Size: 4 mm ID x 6 mm OD 1/4" (.170" ID x .250" OD)
- Spacing: 15 cm, 23 cm, or 30 cm (6", 9" or 12")
- Available in 30 m, 152 m, 305 m and 914 m (100', 500', 1000' and 3000' coils)
- Minimum bending radius: 30 cm (1')
- Filter requirement: minimum of 150 mesh
- Materials: polyethylene resin

Flow rate per 15 m (50')				
Dripper Spacing	Flow .52 GPH		Flow 1.97 L/H	
	GPM	GPH	L/M	L/H
15 cm (6")	0.43	25.8	3.28	196.8
23 cm (9")	0.58	34.7	2.19	131.4
30 cm (12")	0.43	25.8	1.64	98.4

Maximum recommened length of single lateral				
Pressure BAR (PSI)	Dripper Spacing			Flow L/H (GPH)
	15 cm (6")	23 cm (9")	30 cm (12")	
1.0 (15 PSI)	5.5 m (18')	7.3 m (24')	9.8 m (32')	2.0 L/H (.52)
1.4 (20 PSI)	7.3 m (24')	10.4 m (34')	12.5 m (41')	2.2 L/H (.60)
1.7 (25 PSI)	10.0 m (33')	12.8 m (42')	14.9 m (49')	2.5 L/H (.65)



FOGGERS

EXL Fogger Series 500

The EXL 500 series low flow fogger heads used for mist cooling and humidifying produce micro-sized droplets. Design flexibility is achieved with interchangeable nozzles to maximize the cooling and humidifying options. DIG'S EXL 500-xx fogger can significantly reduce the temperature inside greenhouses to maintain ideal temperature and humidity.

Applications

- Mist cooling and humidifying
- Root development

Performance & Technical Data				
Nozzle colors	Black	Green	Brown	Gray
Performance at 3.5 BAR (50 PSI), single head				
Flow rates (GPH)	1.07	1.58	2.02	2.91
Wetting diameter (ft)	3.2	3.5	3.5	4.0
Rectangular spacing (ft x ft)	3 x 3	3 x 4	3 x 4	3 x 4
Application rate (in/h)	0.10	0.12	0.13	0.18
Performance at 3.5 BAR (50 PSI), four-way head assembly				
Flow rates (GPH)	4.68	6.84	8.72	12.68
Rectangular spacing (ft x ft)	4 x 4	4 x 4	4 x 4	4 x 4
Application rate (in/h)	0.47	0.68	0.87	1.27



cooling

How to specify	
Model	Description
50-501-xx-0	Single fogger assembly on 1/2" FNPT base
50-504-xx-12	4-way fogger assembly with 12" micro tubing, .270 OD barb and weight
50-504-xx-24	4-way fogger assembly with 24" micro tubing, .270 OD barb and weight
50-504-xx-36	4-way fogger assembly with 36" micro tubing, .270 OD barb and weight
52-530-x	Anti-leak device (low pressure)
50-254-xx	Micro tubing assembly with weight
52-181-0	1/2" FNPT base
xx = flow rate	
example: 50-504-xx-12	13 = 1 GPH flow rate 20 = 1.5 GPH flow rate 25 = 2 GPH flow rate 30 = 3 GPH flow rate
50-504-13-12	

MICRO SPRAYER

Micro Sprayer Series 038

Designed for use in greenhouses, 52-038-xx micro sprayers produce fine droplets and come in a wide range of flow rates. Ideal for maintaining conditions conducive to propagation and germination. An optional anti-leak device prevents dripping at the beginning and the end of each irrigation cycle, keeping the entire line pressurized.

Applications

- Use in germination, seeding and rooting in greenhouses and nurseries
- Use for overhead irrigation, propagation and cooling in greenhouses and nurseries



Flow rate & diameter						
Model	52-038-09	52-038-13	52-038-15	52-038-18	52-038-24	52-038-32
Nozzle color	Lt. blue	Violet	Gray	Black	Green	Red
Nozzle size (in)	.031	.039	.043	0.47	.051	.059
Nominal flow rate at 2 BAR						
Flow rates (GPH)	9	13	15	18	24	32
Wetting diameter (ft)	8	8	9	9	10	11



MICRO SPRINKLER

Mini-Micro Sprinkler Series 700

Series 52-700-xx mini sprinkler is an insect-proof, dynamic sprayer for under canopy irrigation with a full range of flow rates and excellent distribution uniformity.

Applications

- Suits all applications of seedling, young sapling and mature tree irrigation
- Use in orchards, greenhouses and nurseries
- Low precipitation rate for any soil structure
- Can be used for frost protection and cooling

Flow rate & diameter							
Model	52-700-10	52-700-15	52-700-18	52-700-24	52-700-27	52-700-32	52-700-42
Nozzle color	Silver	Gray	Black	Green	Dk. blue	Red	Brown
Nozzle size (in)	.035	.043	.047	.051	.055	.059	.071
Nominal flow rate at 2 BAR (29.4 PSI)							
Flow rates (LPH)	40	60	70	90	105	120	160
Wetting diameter (ft)	10	11	13	14	15	16	17



Mini-Compact Micro Sprinkler Series 861

The mini-compact micro sprinklers present an advanced concept in micro irrigation systems. The mini-compact micro sprinkler's unique drive mechanism achieves strong spinner propulsion at lower pressure. A small backup filter ensures extra protection and also serves as a secondary nozzle, keeping the droplet size even and providing excellent distribution uniformity. Mini-compact micro sprinklers use interchangeable components with a large selection of nozzles suitable for applications in the irrigation of seedlings, young saplings and mature trees.

Applications

- Use in orchards, greenhouses and nurseries
- Can be used for frost protection and cooling

Flow rate & diameter							
Model	52-861-09	52-861-13	52-861-15	52-861-18	52-861-24	52-861-32	52-861-42
Nozzle color	Lt. blue	Violet	Gray	Black	Green	Red	Brown
Nozzle size (in)	.031	.039	.043	.047	.051	.059	.071
Nominal flow at 29.4 PSI (2 BAR)							
Flow rates (GPH)	9	13	15	18	24	32	42
Wetting diameter (ft)	15	20	22	23	24	26	28



LEIT-1

Ambient Light (Solar) Powered Controller

The LEIT-1 requires no direct sunlight and can obtain enough power from surrounding light to operate both day and night in any weather condition.



Features

- Available with an in-line valve, anti-siphon valve, actuator or solenoid with three adapters
- No backup battery or AC power necessary – uses clean solar energy
- Simple, icon-based intuitive programming
- Manual On/Off button opens the valve and shows the time left to run
- Waterproof (IP68) and humidity resistant
- Power level meter indicates the approximate charge (energy available)
- On activation, the controller display indicates when a program is running and when any programming feature is active
- Program On/Off button: allows the user to turn off the controller and reactivate it as desired



How to specify

Model	Description
LEIT-1 In-Line Valve	
LEIT1 ILV-075BSP	20 mm (3/4") inline valve
LEIT1 ILV-100BSP	25 mm (1") inline valve

7X0A SERIES

Two, Four and Six Stations Battery Operated Controllers

Control multiple valves in multiple locations with a single controller where no AC power is available with the 720A, 740A, and 760A multi station battery operated controllers; the latest additions to DIG's innovative 700A line of controllers.

Features

- Powered by two AA alkaline batteries with a safe period of 60 seconds
- Operates up to six stations, a master valve and a sensor
- Icon-based intuitive programming and EasyFlow™ navigation
- SimpleSmart™ historical ET feature, automatically adjusts monthly irrigation schedules
- Can operate any number of valves
- Low battery indicator
- Upon insertion of the batteries, the controller follows a start-up sequence to test that each solenoid is closed
- Rain delay for up to 99 days watering restrictions
- Display turns off automatically to conserve energy
- Semi-automatic and manual operation
- Easy On/Off button
- A bracket for solenoid and wall mounting is included
- Utilizes RoHS compliant components
- Solenoid wires can be extended up to 30 m (100 feet) (18 AWG)
- Reset option to return controller to default settings excluding time and date
- Non-volatile memory holds all programs indefinitely without batteries
- Completely waterproof (IP68)
- Easily retrofits to most manufacturers' valves with DIG's S-305DC solenoid and one of DIG's seven adapters
- Three-year warranty



How to specify

Model	Description
7X0A Series	
720A-000	two station
740A-000	four station
760A-000	six Station

710AP SERIES

Propagation and Irrigation Battery Operated Controllers

The 710AP series single station controller is a versatile battery operated controller equipped with a two wire DC latching solenoid and designed with propagation, misting and irrigation cycles to provide advanced programming capabilities for all types of commercial, greenhouse and nursery applications.

Features

- Powered by two AA alkaline batteries
- Three-year battery life
- Up to five starts time per day
- Low battery indicator
- Display indicates if irrigation is set to water for the day, including additional programming features if active
- Simple, icon-based intuitive programming and EasyFlow™ navigation
- After 15 minutes, the controller screen turns off automatically to conserve energy
- Semi-automatic and manual operation with timed countdown for shutoff
- System On/Off button allows the user to turn off the controller's programming and reactivate it as desired
- Utilizes RoHS compliant
- Non-volatile memory holds programs indefinitely, except date and time
- Completely waterproof (IP68)
- Rain sensor connection included
- Easily retrofits to most manufacturers' valves
- Three-year warranty



How to specify

Model	Description
710AP Series - Single station	
710AP-075BSP	20 mm (3/4") BSP inline valve
710AP-100BSP	25 mm (1") BSP inline valve

400A SERIES

Single Station Battery Operated Controllers

Features

- Simple to program
- Multiple programming options
- Large LCD screen and easy-to-read icons
- Rain sensor compatible
- Available with an in-line valve, anti-siphon valve, actuator or solenoid with three adapters
- Durable construction whether below grade in a valve box or above grade
- Battery life of up to three years
- Three-year warranty



How to specify

Model	Description
400A in-line valve with BSP thread	
400A-075BSP	20 mm, 3/4"
400A -100BSP	25 mm, 1"





water matters™

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