IRRIGATION PRODUCT CATALOG *2016*

DIG
water matters

- **Professional Sales Team**
- **Knowledgeable Customer Service Staff**
- **Personal Technical Assistance**
- **Extensive Web Support**

Customer Satisfaction

Customer Satisfaction is the cornerstone of DIG's philosophy. Your success with our products determines the future of our company. We are prepared to help answer your questions through each step of implementing your irrigation projects. We have trained personnel available to give advice when designing your systems, ordering products, and developing projects.

Sales Team

DIG's professional, experienced sales team is ready to assist you with all of your irrigation needs, from design questions to on-site training. Our knowledgeable salespeople are available to answer questions and make recommendations using DIG products through all stages of your project.

Customer Service

DIG's courteous, knowledgeable customer support department is on hand to provide a personal touch to the order and delivery process. Our goal is to know our customers and fulfill the customer's needs and requirements. From data entry to the moment the product arrives at your door, DIG's customer support is at your service.

Technical Assistance

Technical assistance is just a phone call away. DIG's tech support department is versed not only in the DIG product line, but experienced in most irrigation product lines. Our department is managed by experienced landscape and irrigation experts who understand the need for a quick response and accurate information.

We are ready to assist you at 800-322-9146 or e-mail tech@digcorp.com

On-line Technical Information

A wealth of information regarding DIG products is available on-line at www.digcorp.com This valuable reference contains on-line catalogs, CAD details, specifications, programming instructions, instruction manuals, videos, installation guides, and parts lists, all in an easy-to-access format.

Our Vision

Smart and environmentally sustainable irrigation solutions™.

Our Mission

DIG is defined by our commitment to our customers and to developing new environmentally sustainable irrigation solutions. We strive to exceed customer expectations by embracing continuous improvement throughout our organization and our products.

Our Values

DIG is dedicated to the research and development of quality, environmentally conscious irrigation products that support our customers' needs. We are committed to our customers' success and to helping them achieve their goals.

We will proactively develop products of the highest quality in an effort to satisfy global customer needs. We will constantly strive to develop products that use the earth's resources wisely. We will continue to engage in educational opportunities for our customers and employees. We place a high value on integrity and will communicate openly and honestly with our customers and employees.

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DRIPLINE • MICRO-LINE™ AND EXCEL PC™

Whether designing, installing or maintaining an efficient irrigation system, place DIG's Excel™ PC CV, Excel PC™ and Micro-Line™ driplines at the top of your list. Offering new advances in pressure compensating dripline for above or below grade, our Excel PC CV driplines feature a built-in check valve that increases uniformity, and conserves water, producing an extended range of driplines for versatility in a wide variety of applications.

Both 1/2 in. and 1/4 in. driplines contain UV protection and micro filters within each drip emitter to ensure long life and trouble-free operation.

2 **Micro-Line Dripline**

3 **Excel Pressure Compensating Dripline with Check Valve**

4 **Excel Pressure Compensating (PC) Dripline**

MICRO-LINE™ Dripline

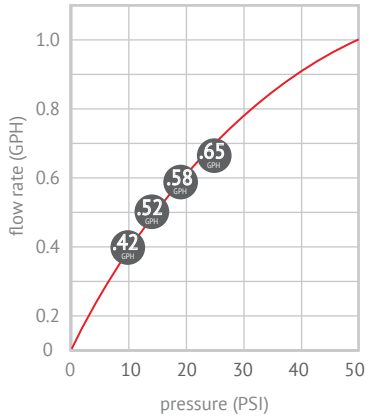
Features

- 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 1/4" (6 mm) barbed fittings
- Flexible tubing for easy installation
- Two outlets per drip emitter ensure less chance of clogging

Specifications

- Operating pressure: 10-25 PSI (.7-1.7 BAR)
- Flow rates: .52 GPH (2 L/H) at 15 PSI (1 BAR)
- Dripline color code: black or brown
- Dripper color code: blue
- Size: 1/4" (.170 ID x .250 OD) (4.3 mm ID x 6 mm OD)
- Spacing: 6", 9" or 12" (15 cm, 22 cm, or 30 cm)
- Available in 100', 500', 1000' and 3000' coils (30 m, 150 m, 300 m and 900 m)
- Minimum bending radius: 1' (.3 m)
- Filter requirement: minimum of 150 mesh
- Materials: low-density polyethylene resin

Flow rate vs. pressure



Flow rate per 50 feet (15 M) at 15 PSI

Dripper	GPM	GPH	Dripper	LPM	LPH
6"	0.87	52	15 cm	3.3	200
9"	0.58	35	23 cm	2.2	130
12"	0.43	26	30 cm	1.7	60

Flow rate per 50 feet (15 M) at 20 PSI

Dripper	GPM	GPH	Dripper	LPM	LPH
6"	0.97	58	15 cm	3.7	220
9"	0.64	39	23 cm	2.4	143
12"	0.48	29	30 cm	1.8	110

Flow rate per 50 feet (15 M) at 25 PSI

Dripper	GPM	GPH	Dripper	LPM	LPH
6"	1.08	65	15 cm	4.2	250
9"	0.72	43	23 cm	2.7	163
12"	0.54	33	30 cm	2.1	125

Maximum single lateral length

Pressure (BAR)	Dripper Spacing 6" (15 cm)	9" (22 cm)	12" (30 cm)	Flow Rate (GPH)
15 PSI (1.0)	18' (5.5 m	24' (7.3 m)	32' (9.8 m)	52 (2.0 L/H
20 PSI (1.4)	24' (7.3 m)	34' (10.4 m)	41' (12.5 m)	.60 (2.2 L/H)
25 PSI (1.7)	33' (10.0 m)	42' (7.3 m)	49' (14.9 m)	.65 (2.5 L/H)

Pressure vs. flow

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

How to specify

Model	Description	Color
ML-1XX	100' .52 GPH	Black
ML-1XXB	100' .52 GPH	Brown
ML-5XX	500' .52 GPH	Black
ML-5XXB	500' .52 GPH	Brown
ML-10XX	1,000 .52 GPH	Black
ML-10XXB	1,000 .52 GPH	Brown
ML-30XX	3,000 .52 GPH	Black
ML-30XXB	3,000 .52 GPH	Brown

XX = dripper spacing

example: ML-1XX ↓↓ ML-112	06	=6 in (15 cm)
	09	= 9 in (23 cm)
	12	= 12 in (30 cm)

EXCEL™ PC CV Pressure Compensating Dripline with Check Valve

Excel™ PC CV dripline's check valve feature prevents water from draining at lower elevations along the line and also protects each drip emitter from siphoning sediment, small particles and debris at the end of each irrigation cycle.

Features

- Can be installed above or below grade
- In-line emitter check valves prevent drainage from the dripline when water pressure drops below 2.5 PSI, protecting the emitters against the siphoning of small sediment and soil particles into the drip emitter making it ideal for sub-surface drip installation
- Available in two flow rates, a wide range of spacing and drip tubing lengths to provide maximum design flexibility in a variety of applications
- The pressure compensating feature provides flow uniformity regardless of operating pressure and variation along the line
- The drip emitter and the diaphragm are self-contained units molded to the interior wall of the tubing
- Turbulent flow through large labyrinth water passages leads water into the flow control chamber where a sensitive floating silicon diaphragm regulates and maintains a constant flow rate at variable inlet pressures. The self-flushing silicon diaphragm allows pressure to build up within the chamber and flush any debris not captured by the intake filter.
- Dripline includes one inlet and two outlets per emitter
- The intake inlet has a number of raised grooves that act as a secondary filter. The filter intake area is continuously flushed by water flow through the operation of the system, preventing particles from entering the labyrinth and giving the drip emitter its resistance to clogging.
- The check valve and the dual, oppositely oriented directional outlets act as a physical barrier to root and debris intrusion through the beginning and end of each irrigation cycle
- Resistant to chemicals and fertilizers commonly used in landscaping
- Flexible tubing for easy installation
- The dripline is marked with flow rate and size for easy identification
- Use with DIG 17 mm barb fittings, .670 OD compression fittings and the universal Nut Lock™ fittings

Easy to read labels provide a clear description of dripline specifications and spacing

Maximum single lateral length

Pressure PSI (BAR)	Dripper spacing 12" (30 cm)	18" (45 cm)	24" (60 cm)
	Flow rate .6 GPH (2.3 L/H)		
15 PSI (1.0)	215' (65 m)	244' (74 m)	370' (112 m)
25 PSI (1.7)	304' (92 m)	406' (123 m)	482' (146 m)
35 PSI (2.4)	343' (104 m)	459' (139 m)	617' (187 m)
45 PSI (3.2)	442' (134 m)	548' (166 m)	772' (234 m)
	Flow rate 1.0 GPH (3.8 L/H)		
15 PSI (1.0)	145' (44 m)	221' (67 m)	294' (89 m)
25 PSI (1.7)	185' (56 m)	294' (89 m)	403' (122 m)
35 PSI (2.4)	248' (75 m)	347' (105 m)	479' (145 m)
45 PSI (3.2)	287' (87 m)	413' (125 m)	512' (155 m)

Flow rate per 100 feet (30 M)

Dripper spacing	Flow rate .6 GPH GPM	L/M	GPH	L/H
12" (30 cm)	1.00	3.8	60	227
18" (45 cm)	0.67	2.5	40	151
24" (60 cm)	0.50	1.9	30	114
Dripper spacing	Flow rate 1.0 GPH GPM	L/H	GPH	L/H
12" (30 cm)	1.67	6.3	100	379
18" (45 cm)	1.11	4.2	66.7	252
24" (60 cm)	0.83	3.2	50	189

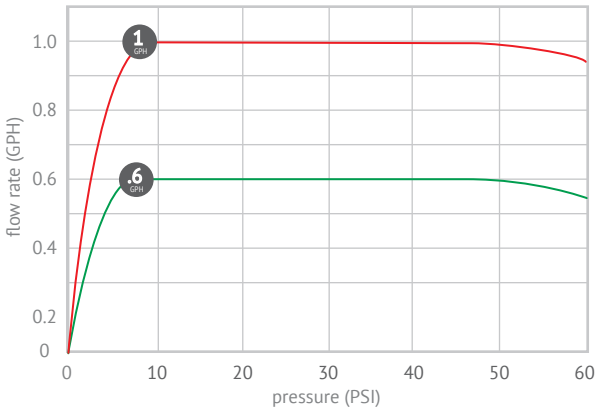
Excel™ PC CV pressure compensating (PC) dripline, flexible, durable and precise with all the features you look for in a dripline.

Specifications

- Operating pressure: 12-50 PSI (.8-3.5 BAR)
- Check valve opening pressure: 4.3 PSI (.3 BAR)
- Check valve sealing pressure: 2.5 PSI (.17 BAR)
- Flow rates:
  - .6 GPH (2.3 L/H) color code – orange
  - 1 GPH (3.8 L/H) color code – gray
- Dripline color: brown
- Size: 1/2" (.570 ID x .670 OD) (14.5 mm ID x 17 mm OD)
- Spacing: 12", 18" or 24" (30.5 cm, 45.7 cm and 61 cm)
- Available in 100', 250', 500' and 1000' coils (30 m, 75 m, 150 m and 300 m)
- Minimum bending radius: 1' (.3 m)
- Filter requirement: minimum of 150 mesh
- Materials: Dow FINGERPRINT™ DFDA-7510 NT linear low-density polyethylene resin

The dripline drip emitter's check valve feature prevents water draining when water pressure drops below 2.5 PSI, protecting the drip line drip emitters from siphoning sediment, soil particles, and debris at the end of each irrigation cycle.

Flow rate vs. pressure



How to specify		
Model	Description	Color
A5-1XXP-CV	100' .6 GPH	Brown
A1-1XXP-CV	100' 1.0 GPH	Brown
A5-2XXP-CV	250' .6 GPH	Brown
A1-2XXP-CV	250' 1.0 GPH	Brown
A5-5XXP-CV	500' .6 GPH	Brown
A1-5XXP-CV	500' 1.0 GPH	Brown
A5-XXP-CV	1,000' .6 GPH	Brown
A1-XXP-CV	1,000' 1.0 GPH	Brown
XX = dripper spacing		
example: A5-5XXP-CV ↓↓ A5-512P-CV	12 = 12 in (30 cm)	
	18 = 18 in (46 cm)	
	24 = 24 in (61 cm)	

EXCEL™ Pressure Compensating (PC) Dripline

Providing trouble-free operation, long life and optimum plant growth for a sustainable and efficient irrigation system.

Features

- Installed above grade
- Two flow rates to provide maximum flexibility in a variety of applications
- Flow regulated, self flushing in-line drip emitters deliver equal flow at a wide range of operating pressures
- Flow uniformity regardless of operating pressure and variation along the line
- The drip emitter and the diaphragm are self-contained units that are molded into the interior wall of the tubing
- Turbulent flow through a large labyrinth water passage helps reduce clogging
- Each emitter is made of three individual sections including a cylindrical plastic housing with labyrinth water passage, a plastic receptacle and floating silicon diaphragm
- Resistant to chemicals and fertilizers commonly used in landscaping
- Flexible tubing for easy installation
- The dripline is marked with flow rate, size and date for easy identification
- Use with DIG 17 mm barb fittings .670 OD compression fittings and universal Nut Lock™ fittings

Specifications

- Operating pressure: 12-50 PSI (.8-3.5 BAR)
- Flow rates:
  - .58 GPH (2.2 L/H) color code - yellow
  - .95 GPH (3.6 L/H) color code – white
- Color code: black or brown
- Sizes:
  - .570 ID x .660 OD (14.5 mm ID x 16.7 mm OD)
- Spacing: 12”, 18”, 24”, 30 and 36” (30.5 cm, 45.7 cm, 61 cm 76 cm and 91 cm)
- Lengths: 100’, 250’, 500’ and 1000’ coils
- (30 m, 75 m, 150 m and 300 m)
- Minimum bending radius: 1’ (.3 m
- Filter requirement: minimum of 150 mesh
- Materials: low-density polyethylene resin

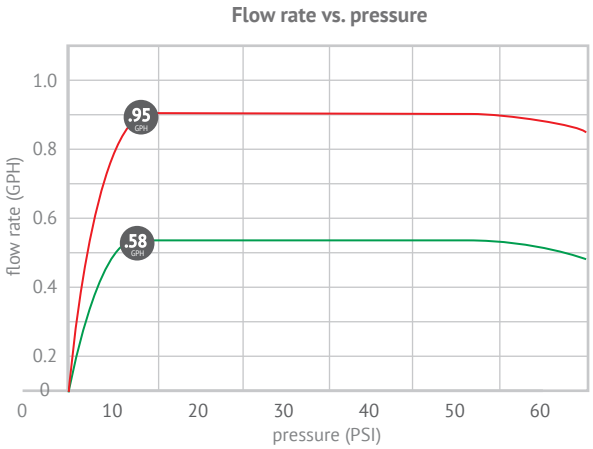
Easy to read labels provide a clear description of dripline specifications and spacing

How to specify

Model	Description	Color
17 MM PC dripline • 670 OD		
A5-1XXP	100’ .58 GPH	Brown
A1-1XXP	100’ .95 GPH	Brown
A5-2XXP	250’ .95 GPH	Brown
A1-2XXP	250’ .95 GPH	Brown
A5-5XXP	500’ .58 GPH	Brown
A1-5XXP	500’ .95 GPH	Brown
A5-XXP	1000’ .58 GPH	Brown
A1-XXP	1000’ .95 GPH	Brown
XX = dripper spacing		
example: A5-5XXP ↓↓ A5-512P	12 = 12 in (30 cm)	
	18 = 18 in (45 cm)	
	24 = 24 in (61 cm)	
	30 = 30 in (76 cm)	

Flow rate per 100 feet (30 M)

Dripper spacing	Flow rate .58 GPH (2.2 L/H)			
	GPM	L/M	GPH	L/H
12" (30 cm)	0.97	3.7	58	220
18" (45 cm)	0.64	2.4	39	146
24" (60 cm)	0.48	1.8	29	110
30" (75 cm)	0.39	1.5	23.2	88
Dripper spacing	Flow rate .95 GPH (3.6 L/H)			
	GPM	L/H	GPH	L/H
12" (30 cm)	1.58	6.0	95	360
18" (45 cm)	1.06	4.0	63.3	240
24" (60 cm)	0.79	3.0	48	180
24" (75 cm)	0.63	2.4	38	144



Maximum single lateral length 17 MM PC dripline

Pressure PSI (BAR)	Dripper spacing		
	12" (30 cm)	18" (45 cm)	24" (60 cm)
	Flow rate .58 GPH (2.2 L/H)		
15 PSI (1.0)	218' (66 m)	281' (85 m)	376' (114 m)
25 PSI (1.7)	320' (97 m)	446' (135 m)	587' (178 m)
35 PSI (2.4)	376' (114 m)	545' (165 m)	706' (214 m)
45 PSI (3.2)	465' (141 m)	624' (189 m)	792' (240 m)
	Flow rate .95 GPH (3.6 L/H)		
15 PSI (1.0)	172' (52 m)	221' (67 m)	300' (91 m)
25 PSI (1.7)	231' (70 m)	347' (105 m)	419' (127 m)
35 PSI (2.4)	297' (90 m)	409' (124 m)	512' (155 m)
45 PSI (3.2)	330' (100 m)	479' (145 m)	561' (170 m)

SINGLE & MULTI-OUTLET EMITTERS

There are many types of emitters to consider when designing a drip irrigation layout for your landscape. DIG's full array of drip emitters can meet all of your low flow irrigation needs. From our multi-outlet drip manifolds, designed for both first time installations and for retrofitting an existing sprinkler system, to our single point pressure compensating drip emitters for use in long laterals, our range of drip emitters provides plenty of options for any design requirement.

8 **Twelve Outlet Manifolds**

9 **Six Outlet Manifolds**

10 **Four Outlet Drip Manifolds**

11 **Pressure Compensating Emitters**

12 **Pressure Compensating Emitter Stakes**

13 **Button Drip Emitters**

13 **Flag Drip Emitters**

14 **Adjustable Drip Emitters**

14 **Adjustable Bubbler**

TOP — Twelve Outlet Manifolds

Features

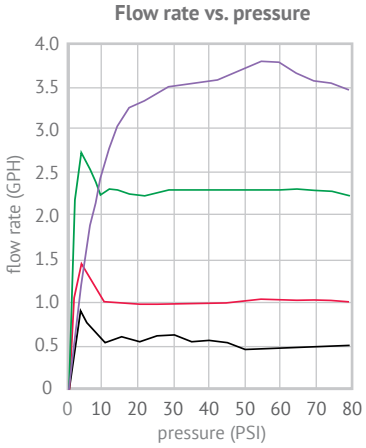
- Constructed with 12 built-in individually pressure compensating drip emitters
- Self-flushing emitters allow passage of water and minimize clogging
- Interchangeable drip emitters for variable flow rates in a single head
- Color-coded drip emitters and barbs easily identify flow rate at each zone
- Each drip emitter individually filtered (approx. 80 mesh)
- Backup mini-disk filter
- Rugged materials to withstand the most adverse conditions
- Install above grade or place below grade in a 6" emitter box
- Inlet plugs provide the option to cap off up to eight drip emitters
- TOP kits contain 100' of 1/8" distribution tubing, accessories, stakes and 1/4" converter barbs allowing the use of 1/4" distribution tubing

Specifications

- Operating pressure: 15-50 PSI (1-3 BAR)
- Pressure compensating range: 8-80 PSI (.5-5.6 BAR)
- Flow rates: .6, 1, 2.2 and 3.3 GPH (2.2, 4, 8.3 and 12.5 L/H)
- Inlet size: 1/2" FNPT
- Use with 1/8" (.187 OD) or 1/4" (.150-.160 ID) distribution tubing
- Filter requirement: minimum of 120 mesh
- Materials:
  - Body and cover: high impact plastic
  - Filter: nylon
  - Diaphragm: silicon

Dimensions

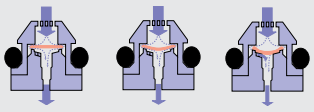
- Dimensions: 3" W x 2" H (7.6 cm W x 5 cm H)



Performance
Maximum number of top on single length of PVC lateral

Color	Black	Red	Green	Purple
Flow in GPH	.6 GPH	1 GPH	2.2 GPH	3.3 GPH
Number of mani-folds	Total flow rate in GPM			
1	0.12	0.2	0.44	0.66
5	0.6	1	2.2	3.3
10	1.2	2	4.4	6.6
15	1.8	3	6.6	9.9
20	2.4	4	8.8	13.2
25	3.0	5	11.0	16.5
30	3.6	6	13.2	19.8
35	4.2	7	15.4	23.1
40	4.8	8	17.6	26.4
45	5.4	9	19.8	29.7
50	6.0	10	22.0	33.0

Emitter Conditions
During Self Flushing Mode



The TOP concept consists of self-cleaning pressure compensating emitters with the ability to compensate for pressure fluctuations between 8-80 PSI achieved through the utilization of a silicone diaphragm and the water passage design. The self flushing function works between 0-8 PSI and is achieved as follows:

At 0-3 PSI the flow is relatively high and the emitter is in flushing mode, while the diaphragm is completely open.
As the pressure increases between 3-8 PSI, the diaphragm slowly begins to close. Flow is still high, but steadily decreasing.
The diaphragm is closed between 8-80 PSI, and the flow is constant.

Opening and closing the system will bring the TOP to a flushing mode.

How to specify

Model	Description
TOP-000	Manifold only
TOP-005	.6 GPH per outlet
TOP-010	1 GPH per outlet
TOP-020	2.2 GPH per outlet
TOP-030	3.3 GPH per outlet
TOP-100	KIT with 1 GPH per outlet
TOP-200	KIT with 2.2 GPH per outlet
TOP-300	KIT with 3.3 GPH per outlet
Replacement drip emitter with O-ring	
10-019	.6 GPH per outlet
10-020	1 GPH per outlet
10-021	2.2 GPH per outlet
10-022	3.3 GPH per outlet
10-016	Bug plug for 1/8" micro tubing
25-007	Converter elbow for 1/4" micro tubing

Six Outlet PC Drip Manifolds

Features

- Available in two flow rates
- Large water passages with rolling diaphragm allow debris to pass through without clogging
- Individual flow-regulated devices for each outlet
- Rugged materials to withstand adverse conditions
- Install above grade or place below grade in a 6" emitter box
- Available with barbs or barbed elbow outlets to hold 1/4" distribution tubing
- Color-coded body for easy identification

Specifications

- Operating pressure: 15-50 PSI (1-3.5 BAR)
- Flow rates: 4.5 and 5.5 GPH (17 and 20.8 L/H)
- Inlet size: 1/2" FNPT
- Outlet size: 1/4" barb or barbed elbow
- Use with 1/4" (.150-.160" ID) distribution tubing
- Filter requirement: min. of 80 mesh
- Materials:
  - Body, covers and flow regulating device: high impact plastic
  - Diaphragms: silicon
  - Barbed outlets: acetal

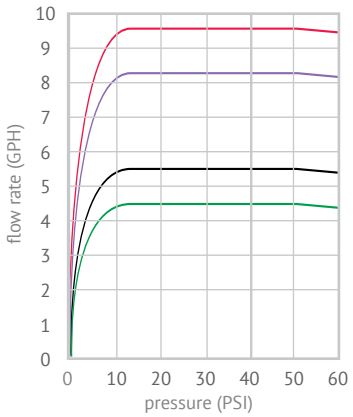
Dimensions

- 2.25" W x 1.5" H (57 mm W x 38 mm H)

Performance
total flow rate per drip head

Drip heads	Flow per outlet 4.5 GPH	Flow per outlet 0.7 GPM	Flow per outlet 5.5 GPH	Flow per outlet 0.9 GPM
1	27	0.45	33	0.55
5	135	2.25	165	2.75
10	270	4.50	330	5.50
15	405	6.75	495	8.25
20	540	9.00	660	11.0

Flow rate vs. pressure



How to specify

Model	Description	Color
	With side outlet	
06-504	4.5 GPH	Black
06-506	5.5 GPH	Brown

Six Outlet Adjustable Drip Manifolds

Features

- Swivel barbed outlets allow installation flexibility and protection of flow control
- Made of rugged materials to withstand adverse conditions
- Can be installed above or below grade in a 6" (15 cm) emitter box
- Use with 1/4" (.150 -.160 ID (4 mm ID) distribution tubing or with 1/4" (4 mm) dripline

Specifications

- Operating pressure: 15-50 PSI (3.5 BAR)
- Flow rate is adjustable between 0-20 GPH (0-75 L/H) per each outlet
- Inlet size: 1/2" FNPT
- Outlet size: press-fit flow dial with 1/4" barb
- Filter requirement: min. of 80 mesh

Dimensions

- 2.25" W x 1.5" H (57 mm W x 38 mm H)

How to specify

Model	Description
06-620	Barb outlet, 1/2" FPT, adjustable head, 0-20 GPH per outlet

Four Outlet Drip Manifolds

Features

- Built with large water passage and backup screen filter to help prevent clogging
- Available with top-mounted, barbed connector outlets, which can be easily removed or replaced to hold 1/4" distribution tubing
- Three flow rates, color-coded for easy identification
- Constructed of UV-resistant, durable plastic material to withstand the most adverse conditions
- Install above grade or place below grade in a 6" emitter box

Specifications

- Operating pressure: 10-50 PSI (.7-3.5 BAR)
- Flow rates: 2, 6, 12, and 20 GPH (8, 23, 45, and 76 L/H)
- Inlet size: 1/2" FNPT
- Outlet size: 1/4" (4 mm) barb
- Filter requirement: minimum of 120 mesh
- Materials:
  - Body: ABS
  - Diaphragm: EPDM

Dimensions

- 1.3" W x 2.3" H (33 mm W x 58 mm H)

How to specify

Model	Description	Color
06-042	2 GPH	Blue
06-043	6 GPH	Black
06-044	12 GPH	Red
06-045	20 GPH	Green

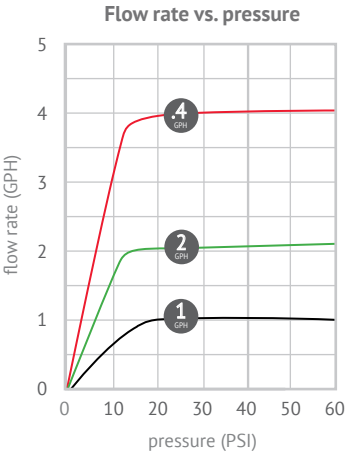
Pressure Compensating Emitters

Features

- Barbed inlet for installation into drip tubing or 1/4” distribution tubing
- Male nipple outlet for a placement of multi outlet adapter or bug caps
- Constructed of UV-resistant, durable plastic material
- Available in three color-coded flow rates for easy identification
- Pressure compensation enables the use of longer laterals with smaller diameter tubing

Specifications

- Operating pressure: 10-45 PSI (.7-3.1 BAR)
- Flow rates: 1, 2, and 4 GPH (4, 8 and 16 L/H)
- Inlet size: 1/4” (6 mm) barb
- Outlet size: .2” (5 mm) male nipple
- Outlet length: .35” (8.9 mm)
- Filter requirement: minimum of 150 mesh
- Materials:
  - Body and cover: polypropylene
    Diaphragm: silicone



How to specify

Model	Description	Color
06-014	1 GPH button dripper	Black
06-015	2 GPH button dripper	Green
06-016	4 GPH button dripper	Red

Pressure Compensating Emitters with Built-in Check Valve

Features

- Ideal watering solution for long laterals, pulse irrigation, and light soil including boxes and containers
- The check valves provide consistent flow and reduces lateral filling time, supporting water savings
- Colored barbed cap outlet enables easy identification of dripper flow rate
- Barb outlet can be configured to work with 1/8" or 1/4" micro tubing for branching from the dripper
- Unaffected by fluctuating inlet water pressure
- Composed of superior materials for a long life

Specifications

- Operating pressure: 10-50 PSI (.7-3.5 BAR)
- Required opening pressure: 4.3 PSI (.3 BAR)
- Closing pressure: 2.2 PSI (.15)
- Flow rates and color codes:
  - .3 GPH (1.1 L/H) color code gray
  - .58 GPH (2.2 L/H) color code brown
  - 1 GPH (3.8 L/H) color code black
- Inlet size: 1/4" barb
- Outlet size: 1/8" barb
- Filter requirement:
  - 120 mesh for .58 GPH (2.2 L/H) or lower
  - 150 mesh for 1 GPH (3.8 L/H) or higher
- Material:
  - Body and cover: polypropylene
  - Diaphragm: silicon

How to specify

Model	Description	Color
PCA-003 CV	.3 GPH dripper	Gray
PCA-005 CV	.58 GPH dripper	Brown
PCA-010 CV	1 GPH dripper	Black

Pressure Compensating Emitters on Stakes

Features

- Turbulent flow path
- Constructed of UV-resistant, durable plastic material to withstand the most adverse conditions
- Available in two color-coded flow rates for easy identification
- Pressure compensation enables the use of longer laterals with smaller diameter tubing

Specifications

- Recommended operating pressure: 15-40 PSI (1-2.8 BAR)
- Flow rates: 1 and 2 GPH (4 and 8 L/H)
- Inlet size: 1/4" (5.4 mm) barb
- Outlet size: .2" (5 mm)
- Stake height: 5" (12.7 cm)
- Filter requirement: minimum of 150 mesh
- Materials:
  - Body and cover: polypropylene
    Diaphragm: silicone

Dimensions

- .95" W x 1" H (24 mm W x 25 mm H)

How to specify

Model	Description	Color
06-054	1 GPH button dripper on 6" stake	Black
06-055	2 GPH button dripper on 6" stake	Green

Button Drip Emitters

Features

- Unique design with a minimum width passage of 0.043" supports a turbulent flow to prevent clogging
- Uniform flow rate
- Constructed of high-quality material to ensure stability and long life
- Twist open design for easy cleaning

Specifications

- Operating pressure: 10-25 PSI (.7-1.7 BAR)
- Flow rates and color codes:
  - .5 GPH (2 L/H) color code – brown
  - 1 GPH (4 L/H) color code – black
  - 2 GPH (8 L/H) color code – green
- Available on 1/4" barb
- Filter requirement: minimum of 150 mesh
- Materials: polypropylene

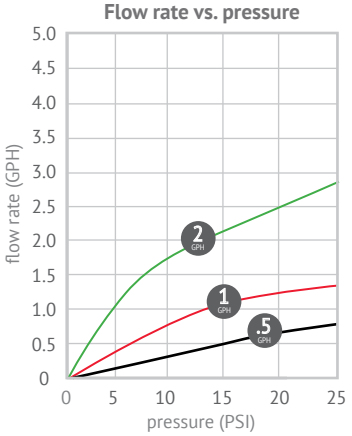
Flow rate vs. pressure

PSI	0.5 GPH dripper	1.0 GPH dripper	2.0 GPH dripper
15	0.55	1.09	2.18
20	0.63	1.25	2.51
25	0.70	1.40	2.80

Performance

Color	Flow rate GPH	Dripper spacing Inch	Pipe diameter 0.520 ID	0.600 ID	0.830 ID
Brown	0.5	18	258	345	649
		24	306	405	785
		36	429	563	1025
		42	476	626	1133
Black	1.0	18	163	219	413
		24	204	270	501
		36	273	360	653
		42	304	399	710
Green	2.0	18	103	139	265
		24	130	172	321
		36	174	228	420
		42	192	255	465

Flow rate vs. pressure



How to specify

Model	Description	Color
06-019	0.5 GPH	Brown
06-020	1.0 GPH	Black
06-021	2.0 GPH	Green

Flag Drip Emitters

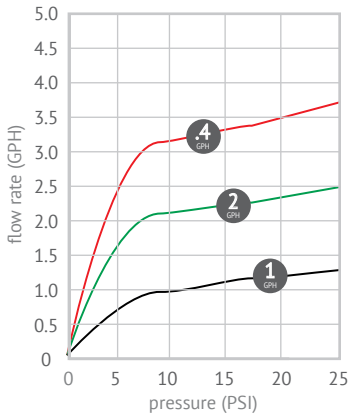
Features

- Tapered barbed inlet for easy installation
- Outlet barb for use with 1/4" (.150-.160 ID) distribution tubing
- Twist open top with lock for secure operation under pressure, easy cleaning (with locking feature)
- Durable high impact plastic

Specifications

- Operating pressure: 10-20 PSI (.7-1.4 BAR)
- Flow rates and color codes:
  - 1 GPH (4 L/H) color code – black
  - 2 GPH (8 L/H) color code – green
  - 4 GPH (12 L/H) color code – red
- Filter requirement: minimum of 150 mesh

Flow rate vs. pressure



How to specify

Model	Description	Color
06-009	1 GPH with 1/4" barb	Black
06-010	2 GPH with 1/4" barb	Green
06-007	4 GPH with 1/4" barb	Red

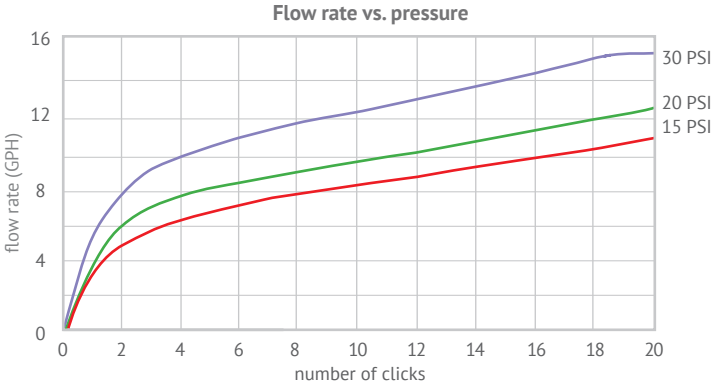
Adjustable Drip Emitters

Features

- Can be taken apart for easy cleaning
- UV stabilized material for long life
- Click adjustment from flow off to full flow – perfect as the plant grows and its need for water changes
- Constructed of UV-resistant, durable plastic material to withstand the most adverse conditions
- Self-tapping barbed inlet for easy installation

Specifications

- Operating pressure: 15-30 PSI (1-2 BAR)
- Flow rates and color codes:
  - Adjustable from 0-15.7 GPH (0-59 L/H)
  - Color code: black
- 180° or 360° coverage
- Available on 1/4" barb or 5" (12.7 cm) stake with barb
- Filter requirement: minimum of 150 mesh



Performance			
	Pressure (PSI)	Flow (GPH)	Throw dia. (FT)
Fully open (approx. 14 clicks)	15	0-11	0-1.5
	20	0-12.5	0-1.9
	30	0-15.7	0-2.7

How to specify		
Model	Description	Color
06-011	0-10 GPH 360° on barb	Black
06-012	0-10 GPH 360° on stake	Black
06-002	0-10 GPH 180° on barb	Black
06-003	0-10 GPH 180° on stake	Black

Adjustable Bubbler

Features

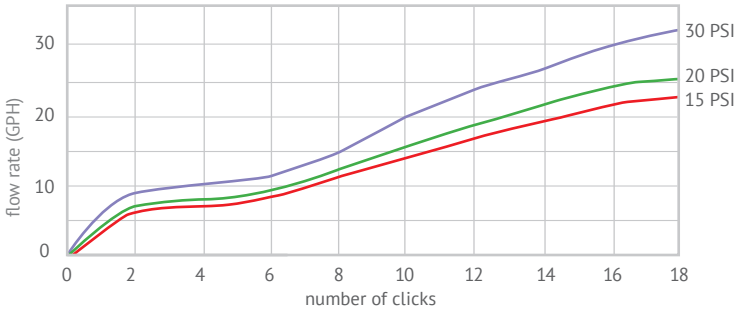
- High volume, direct watering of plants
- Can be taken apart for easy cleaning
- Click adjustment from flow off to full flow – perfect as the plant grows and its need for water changes
- UV stabilized material for long life

Specifications

- Operating pressure: 15-30 PSI (1-2 BAR)
- Flow rates and color codes:
- Adjustable from 0-32 GPH (0-121 L/H)
- 360° coverage
- Color code: black
- Available on 1/4" barb or 5" (12.7 cm) stake with barb
- Filter requirement: minimum of 150 mesh

Performance			
	Pressure (PSI)	Flow (GPH)	Throw dia. (FT)
Fully open (approx. 18 clicks)	15	0-22.7	0-1.6
	20	0-25.8	0-2.6
	30	0-32.0	0-3.5

How to specify		
Model	Description	Color
06-033	0-30 GPH 360° on barb	Black
06-034	0-30 GPH 360° on stake	Black



MICRO SPRAYERS & FOGGERS

When your design requirements include a range of wetting patterns with low precipitation rates, DIG offers a complete line of spray jets, pop-ups, micro sprayers and foggers with multiple features to choose from.

Our EXL Series fogger is ideal for misting and cooling applications. The vortex flow design, which spins the water droplets into a fine mist, can result in lower ambient temperatures for better control of the plants' environment.

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Dynamic Mini Sprinkler

17

12" Pop-Up Micro Sprayer

18

Fan Spray Jet

18

Vortex Adjustable Spray

19

Jet Sprayers

19

A-Jet

20

EXL Series Fogger

Dynamic Mini Sprinkler

Features

- Excellent performance with uniform water distribution
- Press fit configuration for easy maintenance
- Head closes downwards after operation to prevent dirt and insects from entering the sprinkler (insect-proof)
- Dynamic operation ensures self-cleaning and prevents accumulation of deposits
- Firm construction gives a complete 360° circle
- Available on 1/2" FNPT base or completely assembled on spike with micro tubing

Specifications

- Recommended operating pressure: 25 - 35 PSI (1.7 - 2.4 BAR)
- Recommended operating pressure: 35 PSI (2.4 BAR)
- Flow rates: 10 - 42 GPH (40 l/h - 160 l/h)
- Diameter of coverage: 10' - 17' (3 - 5.1 m)
- Material: polyacetal

Flow rate vs. pressure

Model number	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
Nominal flow rate at 30 PSI (2.1 BAR)							
Flow rates (GPH)	10	15	18	24	27	32	42
Wetting diameter (feet)	10	11	13	14	15	16	17

Performance & technical data reverted at 6' (1.8M) height

Nozzle color	Silver	Gray	Black	Green	Dk. Blue	Red	Brown
Performance at 30 PSI (2.1 BAR)							
Flow rates (GPH)	10.9	16.3	19.0	24.4	28.5	32.6	43.4
Wetting diameter (feet)	7	11	12	14	16	15	16

How to specify

Model	Description	Color
52-700-10	10 GPH 360°	Lt. Blue
52-700-15	15 GPH 360°	Gray
52-700-18	18 GPH 360°	Black
52-700-24	24 GPH 360°	Green
52-700-27	27 GPH 360°	Dk. Blue
52-700-32	32 GPH 360°	Red
52-700-42	42 GPH 360°	Brown
52-700-0	Stake assembly for mini sprinkler	

12” Pop-Up Micro Sprayers

Features

- 12” pop-up lengths with 1/4” (4 mm) barbed elbow or 1/2” MNPT
- Unique design incorporates a pressure activated, low friction, upper stem seal
- Second stage piston seal ensures sealing
- Can be used with all sizes of polyethylene tubing using the 1/4” barbed elbow option
- Three color-coded spray nozzles for easy identification
- Constructed of UV-resistant, durable plastic material to withstand the most adverse conditions
- Filter requirement: minimum of 150 mesh

Specifications

- Operating pressure: 15-30 PSI (1-2.1 BAR)
- Nominal operating pressure: 30 PSI (2.1 BAR)
- Flow rate: .15-.73 GPM (34-166 L/H)
- Wetting diameter: up to 12.5’ (3.81 m)
- Filter requirement: 120 mesh
- Inlet size: 1/2” MNPT thread or 1/4” barbed side outlet
- Materials:
  - Body and piston: semi-rigid polypropylene
  - Seals: EPDM and vinyl
  - Base: high impact plastic
  - Spring: stainless steel 304

Dimensions

- Pop-up height:
  - 12” (30.5 cm) or when up 21” (53.34 cm)

MNPT inlet Barbed inlet

How to specify	
Model	Description
1/2” MNPT inlet with 12” pop-up	
MP-121	90° spray head
MP-122	180° spray head
MP-123	360° spray head
1/4” Barbed inlet with 12” pop-up	
MP-124	90° spray head
MP-125	180° spray head
MP-126	360° spray head

Performance flow rate vs. pressure			
Pressure (PSI)	Flow rate (GPH)	Flow rate (GPM)	Throw
360° Spray • nozzle color: RED • orifice size 0.08”			
15 PSI	31.5 GPH	0.53 GPM	10.6 FT diameter
20 PSI	36.2 GPH	0.60 GPM	11.3 FT diameter
25 PSI	40.3 GPH	0.67 GPM	11.9 FT diameter
30 PSI	44.0 GPH	0.73 GPM	12.5 FT diameter
180° Spray • nozzle color: GREEN • orifice size 0.06”			
15 PSI	16.4 GPH	0.27 GPM	5.1 FT radius
20 PSI	19.0 GPH	0.32 GPM	5.5 FT radius
25 PSI	21.3 GPH	0.36 GPM	5.8 FT radius
30 PSI	23.3 GPH	0.39 GPM	6.1 FT radius
90° Spray • nozzle color: BLUE • orifice size 0.03”			
15 PSI	6.2 GPH	0.10 GPM	3.3 FT radius
20 PSI	7.3 GPH	0.12 GPM	3.5 FT radius
25 PSI	8.1 GPH	0.14 GPM	3.7 FT radius
30 PSI	8.9 GPH	0.15 GPM	3.9 FT radius

Fan Spray Jet

Features

- Easy to install using the quick thread base and wide wing edges
- Stake assembly includes a 12" thick wall poly distribution riser with .300 OD
- Can be used with 1/4" (.150-.160 ID) distribution tubing
- Three color-coded nozzles for easy identification
- Constructed of UV-resistant, durable plastic material to withstand the most adverse conditions

Specifications

- Operating pressure: 15-30 PSI (1-2.1 BAR)
- Nominal operating pressure: 30 PSI (2.1 BAR)
- Flow rate: 6-44 GPH (22-166 l/h)
- Wetting diameter: up to 12.5' (3.81 m)
- Orifice size: .03-.08"
- Filter requirement: 120 mesh

How to specify

Model	Description	Color
Fan spray jet head		
07-080	90°	Blue
07-081	180°	Green
07-082	360°	Red
Fan spray jet on spike assembly		
07-080-1	90°	Blue
07-081-1	180°	Green
07-082-1	360°	Red

Vortex Adjustable Spray

Features

- Adjustable full circle vortex spray jet with fine water droplets
- Easy to install using attached barb with extra wide wings
- Can be used with 1/4" distribution tubing (.150-.160 ID)
- Adjustable flow, including shutoff
- Removable cap for easy cleaning

Specifications

- Operating pressure: 15-30 PSI (1-2 BAR)
- Flow rate: 0-20 GPM (0-4.5 L/H)
- Trajectory: 100°
- Fully open: approximately 22 clicks
- Filter requirement: minimum of 120 mesh

Flow rate vs. pressure

360°

Pressure (PSI)	Flow (GPH)	Flow (GPM)	Radius (FT)
15	0-14	0.23	0-5.8'
20	0-16	0.27	0-7.8'
25	0-20	0.33	0-11.5'

*With sprayer a minimum of 5" above ground

How to specify

Model	Description
07-005	360° on a 6" stake

Jet Sprayers

Features

- Color-coded heads signify various spray patterns
- Available on stake assembly with 24" vinyl distribution tubing or threaded barb
- Use with 1/4" distribution tubing (.150-.160 ID)
- Removable cap for easy cleaning
- Constructed of UV-resistant, durable plastic material

Specifications

- Operating pressure: 15-30 PSI (1-2 BAR)
- Flow rates: 14 GPH (50 L/H)
- Wetting diameter: up to 20' (6.1 m)
- Pattern: 360°, 180°, 90° and strip
- Nozzle size: .04"
- Filter requirement: minimum of 120 mesh

Flow rate vs. pressure

		360°	180°	90°
Pressure (PSI)	Flow (GPH)	Diameter (FT)	Radius (FT)	Radius (FT)
15	10.5	15.2	5.9	6.6
20	12.0	16.9	6.4	7.6
25	13.4	18.4	6.9	8.5
30	14.7	19.8	7.3	9.3

*With sprayer a minimum of 8" above ground

How to specify

Spray pattern:	90°	180°	360°	Strip
Assembly color:	Blue/Blk	Blue/Blue	Blue/Red	Blue/Blk
10/32 Thread	07-001	07-002	07-003	07-009
Stake Assembly	07-025	07-024	07-023	07-029

A-Jet

Features

- Mini-valve can be adjusted to reduce flow and diameter
- Available in three spray patterns
- Available on 10/32 thread or completely assembled with spike and 12" PE riser with barb; no moving parts
- Constructed of UV-resistant, durable plastic material.

Specifications

- Operating pressure: 15-30 PSI (1-2 BAR)
- Flow rate: 26.1 GPH @ 25 PSI
- Wetting diameter: up to 23' (7 m)
- Pattern: 360°, 180° and 90°
- Trajectory: approximately 40°
- Filter requirement: minimum of 120 mesh

Flow rate vs. pressure

		360°	180°	90°
Pressure (PSI)	Flow (GPH)	Diameter (FT)	Radius (FT)	Radius (FT)
10	0-16.7	0-17	0-7.2	0-5.7
15	0-20.3	0-18	0-8.2	0-7.0
20	0-23.4	0-20	0-9.1	0-8.1
25	0-26.1	0-22	0-9.9	0-9.0
30	0-28.6	0-23	0-10.6	0-9.9

*With sprayer a minimum of 13" above ground

How to specify

Model	Description
07-061	360° on 10/32 thread
07-062	180° on 10/32 thread
07-063	90° on 10/32 thread
MA-136	360° on spike assembly
MA-118	180° on spike assembly
MA-109	90° on spike assembly

EXL Series Fogger

Features

- Incorporates a vortex design, swirls water droplets into a fine mist
- Modular, lightweight and easy to maintain, configure and install
- Designed without a bridge to prevent dripping
- Three part construction with O-ring for a tight seal
- Available on 1/2" FNPT, 1/4" barb or 10/32 thread

Dimensions

- 1.3" W x 2.3" H
  (33 mm W x 58 mm H)

Specifications

- Operating pressure: 35-80 PSI (2.4-5.6 BAR)
- Nominal flow rates 50 PSI (3.5 BAR)
- Flow rate: .8-3 GPH (3-11.6 L/H)
- Inlet size: 1/4" (4 mm) barb or 10/32 thread
- Filter requirement: minimum of 200 mesh
- Materials:
  - Body: acetal
  - O-ring: Buna-N

How to specify		
Model	Description	Color
07-044	0.8 GPH with barb	Purple
07-045	1.0 GPH with barb	Black
07-046	1.5 GPH with barb	Green
07-047	0.8 GPH on 10/32 thread	Purple
07-048	1.0 GPH on 10/32 thread	Black
07-052	2.0 GPH with barb	Brown
07-054	3.0 GPH on 10/32 thread	Gray

Flow rate vs. pressure					
Nozzle color	Purple	Black	Green	Brown	Gray
Nozzle size (IN)	0.010	0.0.13	0.020	0.025	0.035
Flow rate	0.8	1.0	1.5	2.0	3.0
Diameter (FT)	2.5	2.5	33.5	3.5	4.0
Misting angle	70°	70°	70°	70°	70°
Flow rates (GPH)					
35 PSI	0.76	0.85	1.36	1.68	2.40
40 PSI	0.80	0.91	1.49	1.83	2.61
45 PSI	0.84	0.98	1.52	1.91	2.78
50 PSI	0.85	1.04	1.58	2.02	2.91
55 PSI	0.87	1.07	1.64	2.09	3.02
60 PSI	0.90	1.14	1.71	2.18	3.17
65 PSI	0.91	1.17	1.74	2.26	3.25
70 PSI	1.01	1.26	1.81	2.31	3.42

How to specify		
Model	Description	Color
07-049	0.8 GPH w/ 1/4" barbed elbow	Purple
07-050	1.0 GPH w/ 1/4" barbed elbow	Black
07-055	1.5 GPH w/ 1/4" barbed elbow	Green
07-056	2.0 GPH w/ 1/4" barbed elbow	Brown
07-057	3.0 GPH w/ 1/4" barbed elbow	Gray
07-101	1.5 GPH on 1/2" FNPT	Green
07-102	2.0 GPH on 1/2" FNPT	Brown
07-103	3.0 GPH on 1/2" FNPT	Gray

SCREEN & DISC FILTERS

Gray water, recycled water, re-claimed water, non-potable water; the sources of today's water supplies are becoming more diverse. To ensure that both low-volume irrigation and high-tech landscape irrigation systems operate efficiently, it is now more important than ever to install the correct type and size of filter to protect the irrigation system.

That's why DIG provides a complete range of professional grade, high performance disc and screen filters, all engineered to provide clean water from a variety of water supply sources, and to keep the irrigation systems operating efficiently year after year.

22 **3/4" & 1" Plastic Filters with Screen Elements**

23 **1 1/2" & 2" Plastic Filters with Stainless Steel Screens**

24 **3/4" – 2" Polyester & Stainless Steel Filter Screen Elements**

25 **3/4" & 1" Plastic Filters with Disc Elements**

26 **1 1/2" & 2" Plastic Filters with Disc Elements**

3/4” & 1” Plastic Filters with Screen Elements

Features

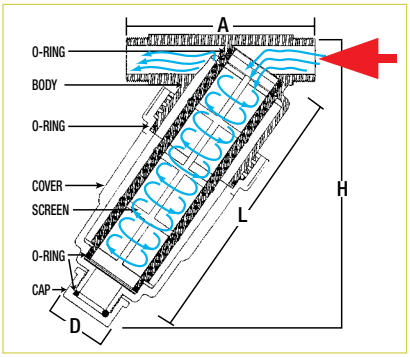
- All-purpose filter with a wide range of polyester and stainless steel screens from 80 to 400 micron to suit a wide range of filtration requirements
- Screens have excellent resistance to most common chemicals
- Color-coded replacement screens for easy identification
- Large filter area and low friction loss allows long intervals between cleaning
- Available with flush cap or flush valve for easy flushing of particles trapped in the bottom of filter
- Recommended to be installed and used after the control valve
- Easy maintenance – the screen can be extracted from the filter for easy cleaning
- Interchangeable screen and disc elements
- Constructed of UV-resistant, durable plastic material to withstand the most adverse conditions

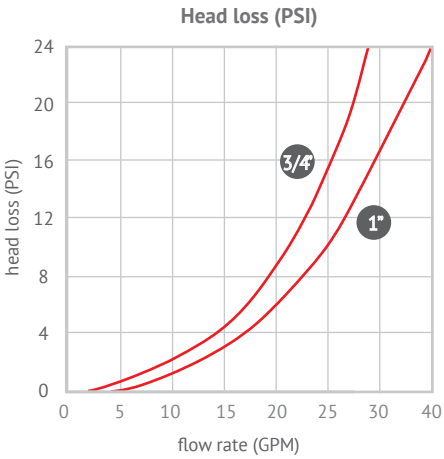
Specifications

- Operating pressure: up to 120 PSI (8.4 BAR)
- Flow rates: up to 18 GPM (4 m3/h)
- Inlet and outlet size: 3/4” FHT x MHT and 3/4” or 1” MNPT
- Temperature range: up to 130°F (54°C)
- Stainless steel and polyester screens from 80 to 200 mesh

Materials

- Housing: polypropylene
- O-ring: EPDM
- Pressure testing port: polypropylene
- Pressure testing seals: natural rubber BR





Surface area & flow rate

Size		Filtration surface area		Maximum recommended flow rates	
in	mm	sq. in	cm2	GPM	m3/h
3/4	20	14.9	96	13	3
1	25	14.9	96	18	5

How to specify

Model	Description
PO9-XXX	3/4” FHT x MHT w/poly screen & flush cap
P10-XXX	3/4” MNPT w/poly screen & flush cap
P11-XXX	3/4” MNPT w/SS screen & flush cap
P12-XXX	3/4” MNPT w/poly screen & flush valve
P13-XXX	3/4” MNPT w/SS screen & flush valve
P14-XXX	3/4” FHT x MHT w/SS screen & flush cap
P15-XXX	3/4” FHT x MHT w/SS screen & flush valve
P16-XXX	1” MNPT w/poly screen & flush cap
P17-XXX	1” MNPT w/SS screen & flush cap
P19-XXX	1” MNPT w/SS screen & flush valve

XXX = Filter mesh

example: P10-XXX ↓↓↓ P10-155	040-40 mesh
	080-80 mesh
	120-120 mesh
	155-155 mesh
	200-200 mesh

Dimension and weight

	A		B		C		D		WT
Size	in	mm	in	mm	in	mm	in	mm	lbs
3/4” with cap	4.71	120	1.5	38	6	152	7	177	.457
1” with cap	4.74	120	1.5	38	6	152	7	177	.457
3/4” w/flush valve	4.71	120	1.5	38	6	152	8	203	.489
1” w/flush valve	4.74	120	1.5	38	6	152	8	203	.489

1 1/2” & 2” Plastic Filters with Stainless Steel Screens

Features

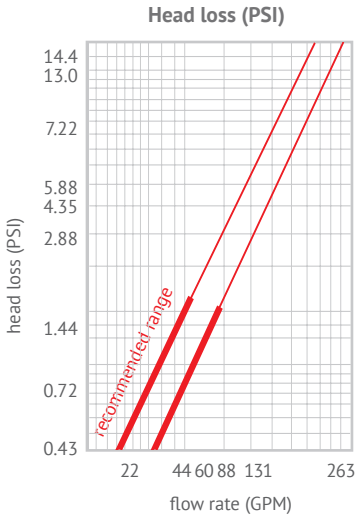
- Large filter area and low friction loss allows long intervals between cleaning
- All-purpose filter with a wide range of stainless steel screens from 80 to 180 microns to suit a wide range of filtration requirements
- Designed to reduce operating costs and deliver high quality filtrate in a minimum space
- Screens have excellent resistance to most common chemicals
- Easy maintenance – the screen can be extracted from the filter for cleaning
- Interchangeable screen and disc elements
- Access point on the inlet and outlet side for pressure measurement test
- Constructed of UV-resistant, durable plastic material to withstand the most adverse conditions

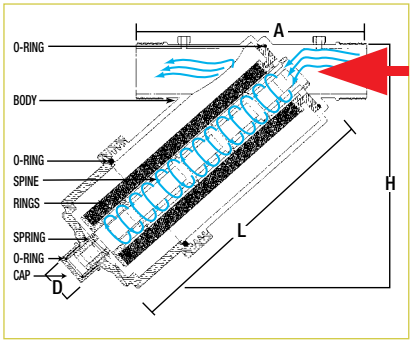
Specifications

- Operating pressure: up to 120 PSI (8.4 BAR)
- Flow rates: up to 80 GPM (18.1 m3/h)
- Temperature range: up to 130°F (54°C)
- Inlet and outlet size: 1 1/2” and 2” MNPT
- Stainless steel screens from 80 to 200 mesh

Filter Materials

- Housing: polypropylene
- O-ring: EPDM
- Pressure testing port: polypropylene
- Pressure testing seals: natural rubber BR





Surface area & flow rate

Size		Filtration surface area		Maximum recommended flow rates	
in	mm	sq. in	cm2	GPM	m3/h
1 1/2	38	85.6	552	60	15
2	50	103.8	670	80	20

Dimension &weight

	A		B		C		D		WT
Size	in	mm	in	mm	in	mm	in	mm	lbs
1 1/2”	10.1	257	3.1	80	8.6	220	9.4	240	2.3
2”	10.1	257	3.1	80	10.4	265	10.6	270	2.6

How to specify

Model	Description
P75-XXXL	1 1/2” MNPT with SS screen & flush cap
P80-XXXL	2” MNPT with SS screen & flush cap
	XXX = Screen filter mesh
example: P10-XXXL ↓↓↓ P30-120L	080-80 mesh
	120-120 mesh
	155-155 mesh
	200-200 mesh

3/4” – 2” Polyester & Stainless Steel Filter Screen Elements

Features

- The screen can retain large amounts of sediment that accumulate on the inside surface of the screen
- The screen can be easily removed for maintenance
- Color-coded replacement screens for easy identification

Chemical Resistance

- Excellent resistance to most mineral acids
- Limited resistance to alkali depending on concentration and temperature
- Excellent resistance to low concentration of lye

Screen Materials

- Cylinder: polyester
- Screen: polyester or stainless steel
- O-ring: EPDM

Filtration degree & material

Filter screen elements			
Mesh	Micron	Material	Color
80	180	Stainless steel	Blue
120	130	Stainless steel	Brown
155	100	Stainless steel	Green
200	80	Stainless steel	Burgundy
40	400	Polyester	Navy blue
80	180	Polyester	Blue
120	130	Polyester	Brown
155	100	Polyester	Green
200	80	Polyester	Burgundy

How to specify

Model	Description	Color
3/4” & 1” filter screen elements		
17-401	40 mesh polyester screen	Navy blue
17-402	80 mesh polyester screen	Blue
17-403	120 mesh polyester screen	Brown
17-404	155 mesh polyester screen	Green
17-405	200 mesh polyester screen	Burgundy
17-412	80 mesh stainless steel screen	Blue
17-413	120 mesh stainless steel screen	Brown
17-414	155 mesh stainless steel screen	Green
17-415	200 mesh stainless steel screen	Burgundy

How to specify

Model	Description	Color
1 1/2” & 2” filter screen elements		
17-080L	80 mesh SS • 1 1/2” long	Blue
17-120L	120 mesh SS • 1 1/2” long	Brown
17-155L	155 mesh SS • 1 1/2” long	Green
17-200L	200 mesh SS • 1 1/2” long	Burgundy
17-085	80 mesh SS • 2” long	Blue
17-125	120 mesh SS • 2” long	Brown
17-160	155 mesh SS • 2” long	Green
17-205	200 mesh SS • 2” long	Burgundy

3/4” & 1” Plastic Filters with Disc Elements

Features

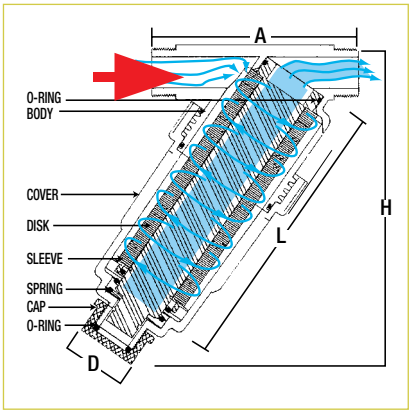
- The disc filter consists of body, cover and grooved discs cylinders, stacked on a plastic spine, forming a cylindrical filter element. The disks are compressed together inside the filter housing by a spring located at the bottom of the filter cover to provide three dimensional filtration
- Sediments accumulate on the outer face of the stacked discs, allowing clean water to flow through the stacked discs and out the middle of the filter
- The disc elements provide in-depth filtration to retain organic matter
- During operation the disc elements are tightly pressed together by pressure and the spring providing high filtration efficiency
- Discs have excellent resistance to most common chemicals
- Easy maintenance – the discs can be extracted for cleaning
- Interchangeable color coded discs and stainless steel screen elements provide a wide range of filtration degrees and options
- Constructed of UV-resistant, durable plastic material to withstand the most adverse conditions

Filter and Disc Materials

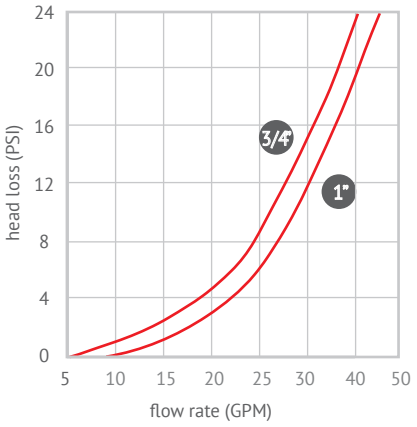
- Housing and discs: polypropylene
- O-ring: EPDM
- Pressure testing ports: polypropylene
- Pressure testing seals: natural rubber BR
- Disc cylinder assembly: polypropylene / PBT
- Spring: stainless steel 304

Specifications

- Operating pressure: up to 120 PSI (8.4 BAR)
- Flow rates: 3/4” & 1”: up to 18 GPM (4 m3/h)
- Temperature range: up to 130°F (54°C)
- Inlet and outlet size: 3/4” and 1” MNPT



Head loss (PSI)



Surface area & flow rate

Size		Filtration surface area		Maximum recommended flow rates	
in	mm	sq. in	cm2	GPM	m3/h
3/4	20	27.9	180	13	3
1	25	27.9	180	18	5

Filtration degree & material

Mesh	Micron	Material	Color
80	180	Polypropylene	Yellow
120	130	Polypropylene	Red
150	100	Polypropylene	Black

How to specify

Model	Description	Color
17-432	80 mesh disc set	Yellow
17-433	120 mesh disc set	Red
17-434	150 mesh disc set	Black
P30-XXXD	3/4” MNPT w/disc elements and flush cap	
P31-XXXD	1” MNPT w/disc elements and flush cap	
XXX = Filter mesh		
example: P30-XXXD ↓↓↓ P30-120D	080-80 mesh	
	120-120 mesh	
	150-150 mesh	

Dimension & weight

	A		B		C		D		WT
Size	in	mm	in	mm	in	mm	in	mm	lbs
3/4”	4.71	120	1.5	38	6	152	7	177	.644
1”	4.74	120	1.5	38	6	152	7	177	.638

1 1/2” & 2” Plastic Filters with Disc Elements

Features

- Sediments accumulate on the outer face of the stacked discs, allowing clean water to flow through the stacked discs and out the middle of the filter
- Disc elements provide in-depth filtration to retain organic matter
- During operation the disc elements are tightly pressed together by pressure and the spring providing high filtration efficiency
- Discs have excellent resistance to most common chemicals
- Easy maintenance – the discs can be extracted for cleaning
- Interchangeable color-coded discs and stainless steel screen elements provide a wide range of filtration degrees and options
- Constructed of UV-resistant, durable plastic material to withstand the most adverse conditions

Specifications

- Operating pressure: up to 120 PSI (8.4 BAR)
- Flow rates: 1 1/2” & 2”: up to 60 GPM (13.6 m3/h)
- Inlet and outlet size: 1 1/2”, 2” MNPT
- Temperature range: up to 130°F (54°C)

Filter and Disc Materials

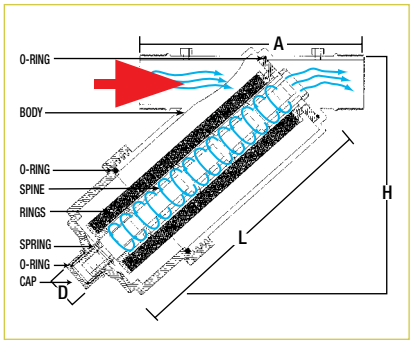
- Housing and discs: polypropylene
- O-ring: EPDM
- Pressure testing ports: polypropylene
- Pressure testing seals: natural rubber BR
- Disc cylinder assembly: polypropylene / PBT
- Spring: stainless steel 304

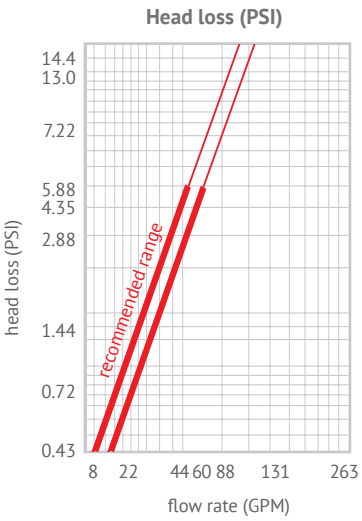
Surface area & flow rate

Size		Filtration surface area		Maximum recommended flow rates	
in	mm	sq. in	cm2	GPM	m3/h
1 1/2	38	59.7	385	60	15
2	50	75.6	488	80	20

Filtration degree & material

Mesh	Micron	Material	Color
40	400	Polypropylene	Blue
80	180	Polypropylene	Yellow
120	130	Polypropylene	Red
150	100	Polypropylene	Black





How to specify

Model	Description	Color
17-040D	40 mesh • 1 1/2” disc set	Blue
17-041D	80 mesh • 1 1/2” disc set	Yellow
17-042D	120 mesh • 1 1/2” disc set	Red
17-043D	150 mesh • 1 1/2” disc set	Black
17-044D	40 mesh • 2” disc set	Blue
17-045D	80 mesh • 2” disc set	yellow
17-046D	120 mesh • 2” disc set	Red
17-047D	150 mesh • 2” disc set	Black
P75-XXXDLI	1 1/2” (long) MNPT disc filter	
P80-XXXD	2” MNPT disc filter	

XXX = Filter mesh

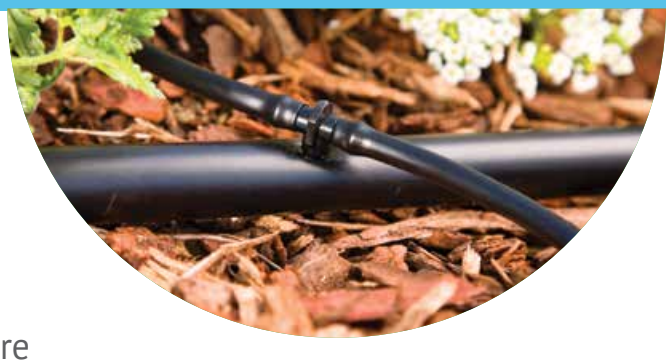
example:
P80-XXXD
↓↓↓
P80-120D

040-40 mesh
080-80 mesh
120-120 mesh
150-150 mesh

Dimension & weight

	A		B		C		D		WT
Size	in	mm	in	mm	in	mm	in	mm	lbs
1 1/2”	10.1	257	3.1	80	8.6	220	9.4	240	2.3
2”	10.1	257	3.1	80	10.4	265	10.6	270	2.6

FITTINGS & ACCESSORIES



DIG offers both compression and barb fittings to ensure a secure and reliable connection.

Our compression fittings are made of high impact material to ensure a positive connection and a long life. Utilizing spin weld technology, the ABS bodies are assembled with a polycarbonate insert welded into place.

In addition to our compression fittings, DIG also provides a universal nut lock fitting line and a complete line of 16 and 17 mm insert fittings to be used with dripline or distribution tubing.

Our barbed fittings are designed for easy installation and secure connection without glue or clamps. DIG accessories include a full line of 1/4" connectors, 1/4" in-line shut-off valves, 1/4" and 1/2" stakes, shrub adapters, punches, goof plugs and PVC to poly inserts.

28 **Pop-Up Indicator & Specialty Valves**

29 **Compression & Universal Fittings**

30 **Barbed Fittings**

31 **Shrub Adapters**

31 **PVC Inserts**

31 **Threaded Fittings**

31 **Punches**

32 **Stakes**

32 **Riser Assemblies**

Pop-Up Indicator

Features

- Available in four configurations
- Large red color indicator for visibility
- Unique design ensures reliable operation
- Can be installed with Excel™ dripline, poly tubing, PVC or used with any drip irrigation system
- Ideal for sub surface systems and densely planted sites

Specifications

- Operating pressure: 15-35 PSI (1-2.4 BAR)
- Operating pressure: 30 PSI (2.1 BAR)
- Pop-up indicator height:
  - 8" (20.3 cm) retracted to 13" (33 cm) extended
  - 12" (30.3 cm) retracted to 21" (53.34 cm) extended

How to specify

Model	Description
DSPI-08	8" with 1/2" MPT
DSPI-08B	8" with 24" micro tubing and barb
DSPI-12	12" with 1/2" MPT
DSPI-12B	12" with 24" micro tubing and barb

Air Relief Valve

Features

- Prevents suction of dirt into the drip laterals via the drippers by preventing vacuum formation
- Large air passage
- Smooth operation
- Constructed of UV-resistant, durable plastic material to withstand the most adverse conditions

Specifications

- Operating pressure: up to 140 PSI (9.8 BAR)
- Temperature range: up to 130°F (54°C)
- Inlet size: 1/2" MNPT
- Plastic with Buna-N seal

How to specify

Model	Description
18-028	1/2" Air vacuum relief valve

Shut Off Valves

Features

- Watertight seal with inlet/outlet O-rings
- Large handle for easy manual control
- Rapid 1/4" turn on and off
- Constructed of UV-resistant, durable plastic material

Specifications

- Operating pressure: up to 60 PSI (4.2 BAR)
- Temperature range: up to 130°F (54°C)
- Recommended operating pressure: 15 to 30 PSI (1 to 2.1 BAR)
- Materials: high impact plastic

How to specify

Model	Description
28-004	3/4" FNPT x 3/4" MNPT
28-006	3/4" FNPT x .600 barb (17mm)
28-007	.600 ID x .600 ID barb (17mm)
28-018	3/4" FHT x MHT flush valve
28-012	3/4" FNPT x .520 barb (16mm)
28-013	.250 ID x .520 ID barb (16mm)

Compression Fittings

Features

- High impact plastic
- Color-coded
- UV-resistant
- Secure and easy installation without glue or clamps
- Fits all DIG 16 mm, 17 mm dripline and polyethylene tubing with .450, .620, .700 and .710 OD

Specifications

- Operating pressure: up to 60 PSI (4.2 BAR)
- Materials:
  - Body: ABS
  - Inserts: polycarbonate

How to specify

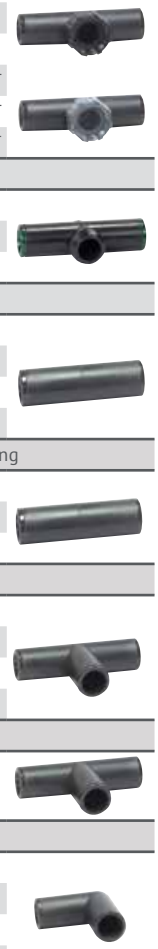
Model	Description
Swivel adaptor with screen	
24-016	.450 OD x 3/4" FPT
24-001	.620 OD x 3/4" FPT
15-005	.700 OD x 3/4" FPT
15-017	.710 OD x 3/4" FPT
24-028	.620 OD x 3/4" FNPT
24-029	.700 OD x 3/4" FNPT
24-030	.710 OD x 3/4" FNPT

How to specify

Model	Description
Swivel adaptor with washer	
24-017	.450 OD x 3/4" FPT
24-010	.620 OD x 3/4" FPT
15-020	.700 OD x 3/4" FPT
15-021	.710 OD x 3/4" FPT
24-006	.620 OD x 3/4" FNPT
15-024	.700 OD x 3/4" FNPT
15-023	.710 OD x 3/4" FNPT
End cap	
24-018	.450 OD x 3/4" FPT
24-005	.620 OD x 3/4" FPT
15-012	.700 OD x 3/4" FPT
15-018	.710 OD x 3/4" FPT
Adaptor	
24-033	.620 OD x 1/2" MPT
24-034	.700 x OD 1/2" MPT
24-035	.710 OD x 1/2" MPT
24-024	.450 OD x 3/4" MPT
24-025	.620 OD x 3/4" MPT
24-026	.700 OD x 3/4" MPT
24-027	.710 OD x 3/4" MPT
24-020	.450 OD x 3/4" MHT
24-021	.620 OD x 3/4" MHT
24-022	.700 OD x 3/4" MHT
24-023	.710 OD x 3/4" MHT
Swivel tee with screen	
24-007	.620 OD x 3/4" FPT
15-008	.700 OD x 3/4" FPT
15-022	.710 OD x 3/4" FPT

How to specify

Model	Description
Swivel tee with washer	
24-058	.620 OD x 3/4" FPT
24-059	.700 OD x 3/4" FPT
24-060	.710 OD x 3/4" FPT
24-064	.620 OD x 3/4" FNPT
24-065	.700 OD x 3/4" FNPT
24-066	.710 OD x 3/4" FNPT
Tee	
24-061	.620 OD x 3/4" MHT
24-062	.700 OD x 3/4" MHT
24-063	.710 OD x 3/4" MHT
Coupling	
24-012	.450 OD
24-002	.620 OD
15-004	.700 OD
15-014	.710 OD
Reducing coupling	
15-003	.700 OD x .710 OD
15-009	.700 OD x .620 OD
15-010	.700 OD x .450 OD
Tee	
24-015	.450 OD
24-003	.620 OD
15-006	.700 OD
15-016	.710 OD
Reducing tee	
24-014	.700 OD x .700 OD x .450 OD
Elbow	
24-013	.450 OD
24-004	.620 OD
15-007	.700 OD
15-015	.710 OD



Universal Fittings

Features

- Fits .620, .700 and .710 tubing (16 mm and 17 mm)
- Three part construction
- Threaded nut for easy assembly
- UV-resistant
- Available in four different configurations

Specifications

- Operating pressure: 60 PSI (4.2 BAR)
- Materials:
  - Body and nut: polypropylene
  - Barb: PPT

How to specify

Model	Description
15-055	Coupling
15-056	Elbow
15-057	Tee
15-058	FPT swivel tee with washer

1/2” Barbed Fittings (16 and 17mm)

Features

- High impact plastic
- UV-resistant
- For secure and easy installation without glue or clamps
- Fits all DIG dripline and polyethylene tubing with 16 mm and 17 mm ID (.550-.620 ID)
- Available with a combination of threads and barbs
- One piece construction

Specifications

- Operating pressure: up to 30 PSI (2.1 BAR)
- Material: Acetal

How to specify

Model	Description	17mm
	Insert coupling	
15-040	.600 OD (17mm)	
	Insert tee	
15-041	.600 OD (17mm)	
	Insert elbow	
15-042	.600 OD (17mm)	
	1/2” Male adapter tee X barb	
15-043	.600 OD (17mm)	
	3/4” Male adapter tee X barb	
15-044	.600 OD (17mm)	
	3/4” Female adapter tee X barb	
15-045	.600 OD (17mm)	

How to specify

Model	Description	17mm
	1/2” Male adapter X barb	
15-046	.600 OD (17mm)	
	3/4” Male adapter X barb	
15-049	.600 OD (17mm)	
	1/2” Elbow Male adapter X barb	
15-047	.600 OD (17mm)	
	PVC single starter connector w/o-ring	
15-048	.600 OD (17mm)	
	Insert barbed cross (17mm only)	
15-061	.600 OD (17mm)	
	3/4” Male adapter X barb ‘Y’ (17mm only)	
15-063	.600 OD (17mm)	
	Poly barbed connector (17mm only)	
15-065	.600 OD (17mm)	

1/4” Barbed Fittings

Features

- Secure and easy installation without glue or clamps
- Large inside diameter for maximum flow
- One piece construction
- UV-resistant
- Fits 1/4” (.145-.190 ID) distribution tubing

Specifications

- Operating pressure: up to 30 PSI (2.1 BAR)
- Material: Acetal

How to specify

Model	Description	
25-001	Long barb	
25-002	Tee	
25-003	Elbow	
25-004	Short barb	

Mini In-line Shut Off Valves

Features

- Adjusts flow from 0-25 GPH (0-95 L/H)
- High impact plastic
- UV-resistant
- For secure and easy installation without glue or clamps
- Fits all 1/4" distribution tubing

Specifications

- Oper. pressure: up to 30 PSI (2.1 BAR)
- Flow rates: 25 GPH (95 L/H)
- Maximum head loss: 6 PSI (.4 BAR)

How to specify

Model	Description
16-007	Shut off valve with 1/4"barb
16-008	Shut off valve with 10/32 thread

Shrub Adapters

Features

- For installing a dripper or spray jet on a 1/2" riser
- Available with 10/32 thread or barb
- UV-resistant

Specifications

- Oper. pressure: up to 30 PSI (2.1 BAR)
- 1/2" FNPT x 10/32 thread
- 1/2" FNPT x 1/4" barb

How to specify

Model	Description
16-034	1/2" FNPT with 10/32 thread
16-058APT	1/2" FNPT with press-fit tee
16-054APB	1/2" FNPT with press-fit barb
16-002	1/2" FNPT x 1/2" MNPT with 1/4" barbed elbow

Hose End & Goof Plugs

Hose End Features

- Small and large hose ends for easy insertion
- UV-resistant
- Made of polypropylene
- Operating pressure: up to 60 PSI

Goof Plug Features

- Use to plug holes in main line or to stop flow out of the end of 1/4" distribution tubing

How to specify

Model	Description
16-015	3/4" hose end
16-021	1/2" hose end
16-022	Goof plug • strip of 10

Punches

Features

- Use to puncture holes when installing drippers and micro sprinklers in polyethylene tubing
- Easy grip handle constructed of durable plastic and non-corrosive materials
- Pro punch and deluxe punch pins can be replaced
- Deluxe punch cuts 1/2" polyethylene tubing and 1/4" distribution tubing with cutter in handle

How to specify

Model	Description
16-020	Small punch
16-035	Pro punch with 3mm pin
16-045	Pro punch with 4mm pin
16-063	Punch for 17mm adapter
16-065	Deluxe punch with cutter
16-066	Insertion tool

PVC Inserts

Features

- Glues into the slip side of any 1/2" PVC fitting
- UV-resistant

Specifications

- Operating pressure: up to 80 PSI (5.5 BAR)

How to specify

Model	Description	Color
Inserts for 1/2" PVC		
24-008	.620 OD	Green
15-067	.670 OD	Brown
15-013	.700 OD	Black
15-019	.710 OD	Blue
Insert for 3/4" PVC		
16-018	.930 OD	Gray

Threaded Fittings

Features

- Hose or pipe thread, male and female

Specifications

- Operating pressure: up to 80 PSI (5.6 BAR)

How to specify

Model	Description
16-003	Swivel adapter 3/4" FHT x MNPT w/washer
16-010	Nipple 3/4" MHT x MNPT
16-008	3/4" FNPT coupling
16-013	Cap 3/4" FHT w/washer
16-014	Cap 3/4" FNPT w/washer
18-029	3/4" FNPT x 1/2" FNPT adapter

Stakes

Features

- High impact plastic
- UV-resistant
- Stake with flow adjustment available with 10/32 thread
- Flow rate on stake is adjustable to off
- For secure and easy installation of 1/2" polyethylene and 1/4" distribution tubing

How to specify

Model	Description	Color
	Pictured from left to right	
16-027	Labyrinth arrow stake for 1/8" tubing	Black
16-011	Stake for 1/2" poly tubing	Black
16-016	"V" stake	Black
16-017	6" Stake w/barb for 1/8" tubing	Black
16-023	4" Stake	Black
16-025	13" Clip stake	Black
16-032	1/2" Heavy duty stake	Black
16-062	1/2" Heavy duty stake	Brown
16-042	1/4" Heavy duty stake	Black
16-072	1/4" Heavy duty stake	Brown
16-043	Adjustable stake w/10/32 thread	Black
16-056	1/4" x 5" Galvanized steel wire	
16-057	1/2" x 8" Galvanized steel wire	
16-059	8" stake w/ 10/32 thread top outlet & side barb inlet	Black

Pop-Up Riser Assembly

Features

- Available in 8" or 12" with 1/2" MNPT or with 1/4" barb
- Unique design incorporates a pressure activated, low friction, upper stem seal and a second stage piston seal to ensure positive sealing
- 1/4" side outlet can be used with 1/4" (.150-.170 ID) distribution tubing and installed on any polyethylene tubing

Specifications

- Operating pressure: 15-35 PSI (1-2.5 BAR)
- Filter requirement: 120 mesh

Dimensions

- 8" (20.3 cm) or when up 13" (33 cm)
- 12" (30.5 cm) or when up 21" (53.34 cm)

How to specify

Model	Description
16-508	8" pop-up riser with 1/4" barb
16-509	12" pop-up riser with 1/4" barb
16-510	8" pop-up riser with 1/2" MNPT
16-511	12" pop-up riser with 1/2" MNPT

Semi Rigid PE Riser Assemblies

Features

- Pre-assembled with rigid polyethylene (PE) riser
- (.160 ID x .300 OD)
- Constructed of UV-resistant plastic material

How to specify

Model	Description
	PE riser w/barb
16-038	12"
	PE riser w/1/2" MNPT adapter
16-208	8"
16-212	12"

Semi Rigid PE Riser Assemblies on Stake

Features

- Pre-assembled with rigid polyethylene
- (PE) riser (.160 ID x .300 OD)
- Flow rate on stake is adjustable to off
- Constructed of UV-resistant plastic material

How to specify

Model	Description
	PE riser w/clip spike assembly
16-046	8"
16-047	10"
16-048	12"
16-049	16"
	PE riser w/adjustable spike assembly
16-108	8"
16-112	12"
	PE riser w/stake assembly
16-109	8"

DISTRIBUTION TUBING

DIG extrudes its polyethylene tubing at our Vista manufacturing facility, producing over 100 million feet each year. A minimum of 2% carbon black is added to ensure maximum UV protection. Our polyethylene drip tubing is available in a wide range of sizes and coil lengths, including 1/8" and 1/4" distribution tubing.

In vinyl tubing, DIG offers both 1/8" and 1/4" distribution tubing in lengths of 100 feet and up to 3,000 feet on spooled coils. Made of a high quality vinyl material, it is UV-resistant and can be used in a variety of applications.

- Compact uniform coils for ease of shipping and storage
- 5 year limited manufacturer warranty

34

1/8" & 1/4" Micro Tubing

34

1/8" & 1/4" Polyethylene Tubing

34

1/2", 3/4" & 1" Polyethylene Tubing

1/8” & 1/4” Micro Tubing

Features

- 1/8” used with TOP 12-outlet emitters
- UV-resistant
- Made of high quality material
- 500’, 1000’ and 3000’ coils (150 m, 300 m, 900 m) come on cardboard cores

Specifications

- Operating pressure: up to 30 PSI (2.1 BAR)
- Available in two sizes:
  - 1/8”: .118 ID x .187 OD
  - 1/4”: .156 ID x .245 OD
  - 1/4”: .160 ID x .220 OD
  - 1/4”: .170 ID x .250 OD
- Stiffness: 90 shore
- Material: vinyl

1/8” & 1/4” Polyethylene Tubing

Features

- Blank polyethylene distribution tubing available in 50’, 100’, 500’, 1000’ and 3000’ coils (15 m, 30 m, 150 m, 300 m, 900 m)
- 500’, 1000’ and 3000’ coils (150 m, 300 m, 900 m) come on cardboard cores

Specifications

- Operating pressure: up to 60 PSI (4.2 BAR)
- Available in three configurations:
  - .125 ID x .187 OD (3.8 x 4.7 mm)
  - .160 ID x .220 OD (4.0 x 5.5 mm)
  - .170 ID x .250 OD (4.3 x 6.3 mm)
- Material: linear low-density polyethylene resin

1/2”, 3/4” & 1” Polyethylene Tubing

Features

- Contains antioxidant to protect the drip tubing from thermal degradation, minimum of 2% concentrated carbon black resin added
- The polyethylene and drip tubing exhibits a combination of outstanding environmental stress-cracking resistance and burst strength
- Use with our wide range of compression and barbed fittings
- Available in black or brown colors
- Coil length in 50’, 100, 250’, 500’ and 1000’ (15 m, 30 m, 75 m, 150 m and 300 m)

Specifications

- Operating pressure: up to 60 PSI (4.2 BAR)
- Available in six configurations:
- .520 ID x .620 OD (13.2 mm x 15.7 mm) wall thickness: .050” (1.3 mm)
- .570 ID x .670 OD (14.5 mm x 17.0 mm) wall thickness: .050” (1.3 mm)
- .600 ID x .700 OD (15.2 mm x 17.8 mm) wall thickness: .050” (1.3 mm)
- .620 ID x .710 OD (15.6 mm x 18.0 mm) wall thickness: .045” (1.1 mm)
- .820 ID x .940 OD (20.8 mm x 23.8 mm) wall thickness: .060” (1.5 mm)
- 1.060 ID x 1.200 OD (26.9 mm x 30.4 mm) wall thickness: .070” (1.8 mm)
- Material: linear low-density polyethylene resin

How to specify

Model	Description	Color
	1/8” Vinyl	
12-006	100’ • .118 ID x .187 OD	Black
12-042	500’ • .118 ID x .187 OD	Black
12-043	1000’ • .118 ID x .187 OD	Black
	1/4” Vinyl	
12-002	100’ • .156 ID x .245 OD	Brown
12-049	500’ • .156 ID x .245 OD	Brown
12-013	100’ • .156 ID x .245 OD	Black
12-005	500’ • .156 ID x .245 OD	Black
12-050	1000’ • .156 ID x .245 OD	Black
12-055	100’ • .160 ID x .220 OD	Black
12-056	500’ • .160 ID x .220 OD	Black
12-057	1000’ • .160 ID x .220 OD	Black
	1/8” Poly tubing	
12-036	100’ • .125 ID x .187 OD	Black
12-075	500’ • .125 ID x .187 OD	Black
12-080	1000’ • .125 ID x .187 OD	Black
12-085	3000’ • .125 ID x .187 OD	Black
	1/4” Poly tubing	
12-038	100’ • .170 ID x .250 OD	Black
12-041	500’ • .170 ID x .250 OD	Black
12-060	1000’ • .170 ID x .250 OD	Black
12-065	3000’ • .170 ID x .250 OD	Black
	1/2” Poly tubing	
31-004	50’ • .520 ID x .620 OD	Black
31-005	100’ • .520 ID x .620 OD	Black
31-006	200’ • .520 ID x .620 OD	Black
31-007	500’ • .520 ID x .620 OD	Black
31-008	1000’ • .520 ID x .620 OD	Black
31-010	100’ • .615 ID x .710 OD	Black
31-011	200’ • .615 ID x .710 OD	Black
31-012	500’ • .615 ID x .710 OD	Black
31-013	1000’ • .615 ID x .710 OD	Black
31-016B	100’ • .570 ID x .670 OD	Brown
31-017B	250’ • .570 ID x .670 OD	Brown
31-018B	500’ • .570 ID x .670 OD	Brown
14-004	50’ • .600 ID x .700 OD	Black
14-005	100’ • .600 ID x .700 OD	Black
14-006	200’ • .600 ID x .700 OD	Black
14-007	500’ • .600 ID x .700 OD	Black
14-008	1000’ • .600 ID x .700 OD	Black
	3/4” Poly tubing	
14-000	250’ • .820 ID x .940 OD	Black
14-002	500’ • .820 ID x .940 OD	Black
	1” Poly tubing	
14-011	250’ • 1.06 ID x 1.20 OD	Black
14-012	500’ • 1.06 ID x 1.20 OD	Black

DRIP ZONE & PRESSURE REGULATORS

DIG's P series pre-assembled drip zones are available in 3/4" or 1" and supported by adjustable or preset pressure regulator in pipe or hose thread. All units are made of high impact and UV-resistant plastic to ensure long life.

Simplified valve manifolds offer a quick installation and easy maintenance and do not require glue or Teflon tape. In addition we offer a wide range of swivel fittings to allow you to customize your manifold design.

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3/4" & 1" 24 VAC Drip Zone Assembly

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Heavy Duty Low to Medium Flow Preset Pressure Regulators

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Adjustable Pressure Regulators

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Pressure Regulating Filters

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Sprinkler Riser to Drip Conversion Kit

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Swivel Fittings

3/4” and 1” 24 VAC Drip Zone Assembly

Features

- Each drip zone is assembled with a slow opening and closing valve for better reliability of the system
- Large filter screen provides greater filtration and operation efficiency
- Designed with ease of maintenance for small size enclosures
- Constructed of UV-resistant, durable plastic material to withstand the most adverse conditions

Specifications

- Operating pressure: 10-120 PSI (.7-8.3 BAR)
- Flow rates: .1-12 GPM (.23-3.6 m3/h)
- Pressure range sets:
  - P39-075: 12-35 PSI (.8-2.5 BAR)
  - P40-075: 30 PSI (2 BAR)
  - P55-100: 30 PSI (2 BAR)
- Filtration area: 11 square inches (71 cm2)
- Temperature range: up to 130°F (54°C)
- 3/4” FNPT x MNPT or FNTP

Materials

- Body: durable plastic
- Spring: stainless steel 304

Dimensions

- 1.25” L x 9” H (28.5 cm L x 23 cm H)

How to specify	
Model	Description
P39-075	3/4” drip zone with 24 VAC and adjustable pressure regulator
P40-075	3/4” 24 VAC valve assembly FNPT x MNPT with 3/4” filter 155 mesh and 3/4” preset pressure regulator (30 PSI)
P55-100	1” 24 VAC valve assembly FNPT x FNPT with 1” filter 155 mesh and 1” preset pressure regulator (30 PSI)

Heavy Duty – Low to Medium Flow Preset Pressure Regulators

Features

- Available with 3/4" FNPT or FHT inlet
- Exceptional control of outlet pressure
- Withstands severe water hammer
- Utilizes a minimum of moving parts and a diaphragm design that regulates itself in reaction to overall system back pressure.
- Engineered with extra thick industrial strength ABS plastic with all joints sonic welded into a tamper proof and impact resistant housing
- Install above or below grade and in downstream pressure

Specifications

- FNPT pressure range: 20, 25, 30, 35 & 40 PSI
- FHT pressure range: 25 PSI
- Operating pressure up to 120 PSI
- Flow rate from .5 to 12 GPM
- Max. recommended flow rate: 12 GPM
- Overall length 4.025"
- Outside diameter 1.845"
- Inlet 3/4" FIPT (standard) or FHT
- Outlet 3/4" FIPT or 3/4" MNPT or MHT
- Materials:
  - Body: chemical resistant ABS plastic
  - Diaphragm: EPDM
  - Spring: stainless steel

How to specify

Model	Description
18-020	20 PSI • 3/4" FNPT x 3/4" MNPT
18-025	25 PSI • 3/4" FNPT x 3/4" MNPT
18-030	30 PSI • 3/4" FNPT x 3/4" MNPT
18-325	25 PSI • 3/4" FNPT
18-330	30 PSI • 3/4" FNPT
18-335	35 PSI • 3/4" FNPT
18-340	40 PSI • 3/4" FNPT
18-130	30 PSI • 3/4" FHT x MHT

Flow rate vs. pressure 18-020

Flow	Input pressure (PSI)			
(GPM)	40	50	60	80
0.5	20.0	20.0	20.0	20.0
1.0	19.8	19.8	19.8	19.8
3.0	19.8	19.8	19.8	19.8
6.0	19.7	19.7	19.6	19.6
9.0	19.3	20.0	20.0	20.0
12.0	17.7	19.2	20.0	20.0

Flow rate vs. pressure 18-025

Flow	Input pressure (PSI)			
(GPM)	30	40	50	60
0.5	24.7	25.9	26.0	26.1
1.0	24.3	24.4	24.6	25.5
3.0	24.2	24.2	24.1	24.1
6.0	23.9	24.0	23.9	23.8
9.0	22.8	24.4	24.3	24.1
12.0	21.8	24.4	24.8	24.7

Flow rate vs. pressure 18-325

Flow	Input pressure (PSI)			
(GPM)	40	50	60	80
0.5	23.5	23.7	24.0	24.4
1.0	23.3	23.5	23.6	23.7
3.0	23.7	23.7	23.7	23.7
6.0	23.5	23.5	23.5	23.5
9.0	21.9	23.5	23.6	23.7
12.0	19.7	21.3	24.0	24.5

Flow rate vs. pressure 18-130 & 18-330

Flow	Input pressure (PSI)			
(GPM)	40	50	60	80
0.5	29.2	29.5	29.9	31.0
1.0	29.0	29.5	29.5	30.0
3.0	29.5	29.3	29.6	29.6
6.0	28.0	28.5	29.0	29.3
9.0	24.0	27.0	29.0	29.5
12.0	22.0	24.8	29.0	30.0

Flow rate vs. pressure 18-335

Flow	Input pressure (PSI)			
(GPM)	40	50	60	80
0.5	35.0	35.0	35.0	35.2
1.0	34.4	34.6	34.6	34.8
3.0	34.0	34.6	34.6	34.6
6.0	30.3	34.2	34.3	34.3
9.0	28.9	32.0	34.0	34.3
12.0	22.9	29.0	32.0	35.5

Flow rate vs. pressure 18-340

Flow	Input pressure (PSI)			
(GPM)	40	50	60	80
0.5	39.0	40.0	40.5	41.0
1.0	39.0	40.0	40.0	40.0
3.0	37.0	40.0	40.0	40.0
6.0	32.0	37.0	39.0	40.0
9.0	29.0	36.0	39.0	40.0
12.0	24.0	30.0	36.0	41.0

Adjustable Pressure Regulators

Features

- Adjustable with a single screw
- Rolling diaphragm keeps the spring assembly free of debris
- Reliable control regardless of fluctuations in upstream pressure or flow

Specifications

- Pressure range: 12-60 PSI (.8-4 BAR)
- Max. working pressure: 125 PSI (8.6 BAR)
- Flow rates: .2-22 GPM (.045-5 m3/h)
- Weight: .75 lb (.34 kg)
- 3/4" FNPT

Materials

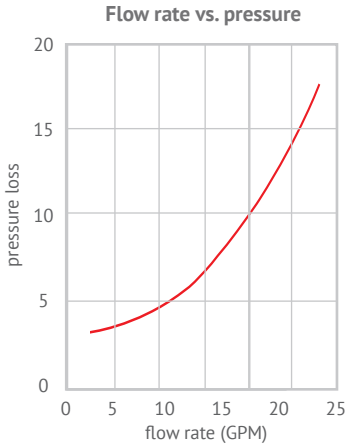
- Body and actuator: plastic
- Rolling diaphragm: nylon reinforced neoprene
- Spring: stainless steel 304

Dimensions

- 4" H x 3.44" W (10 cm H x 19 cm W)

How to specify

Model	Description
18-008	12-35 PSI
18-007	28-60 PSI



Pressure Regulating Filters

Features

- Combination unit helps make installation easier and faster
- Heavy duty glass-filled polypropylene body
- Works with all valves
- Comes with 155 mesh screen pre-assembled (replacement filter elements are available)
- 25 PSI or 45 PSI pressure regulator is integrated into the filter body.

Specifications

- Operating pressure: up to 120 PSI
- Preset Pressure Rating: 25 PSI or 45 PSI
- Screen: stainless steel 155 mesh/100 micron
- Body: glass-filled polypropylene

Dimensions

- L: 6 " x H; 4 1/4" x W: 1 3/4"

Flow rate with pressure loss 3/4" pressure regulating filter

Flow	PRF-25-100	PRF-45-100
(GPM)	(PSI)	(PSI)
0.2	1	6
1	3	2
3	3	6
5	6	9
*8	8	14
*10	9	26
*15	N/A	N/A

*Not recommended

Flow rate with pressure loss 1" pressure regulating filter

Flow	PRF-25-075	PRF-45-075
(GPM)	(PSI)	(PSI)
0.2	1	1
1	4	2
3	5	8
5	10	14
*8	N/A	18
*10	N/A	N/A
*15	N/A	N/A

*Not recommended

How to specify

Model	Description
PRF-25-075	3/4" pressure regulating filter
PRF-25-100	1" pressure regulating filter
PRF-45-075	3/4" pressure regulating filter
PRF-45-100	1" pressure regulating filter
17-056	filter only

Sprinkler Riser to Drip Conversion Kit

Features

- Retrofit 1/2" sprinkler riser into a 25 PSI drip irrigation outlet with .700 OD
- Allows the start of a drip irrigation system from any sprinkler riser
- Reduces incoming water pressure to the ideal working pressure for a drip lateral
- Secure and simple installation of drip line or drip tubing without glue or clamps
- The tee's black insert fits all drip line or polyethylene drip tubing with .670 OD, .700 OD, and .704 OD
- High-strength plastic construction with UV protection for durability and long life

Specifications

- Maximum operating pressure: up to 100 PSI (6.9 BAR)
- Flow rate: up to 5 GPM (18.9 L/H)
- Outlet preset pressure: 25 PSI (1.7 BAR)
- Includes a 1/2" conversion adapter, a 25 PSI preset pressure regulator, and a .700 OD swivel tee with screen
- Inlet: 1/2" FNPT
- Screen: 60 mesh
- Outlet .700 OD with black insert fits drip line & poly tubing with .690 OD, .700 OD, and .704 OD
- Temperature range: up to 130˚
- Materials: high impact plastic with UV protection

How to specify

Model	Description
SRC-25-700	20 PSI • 1/2" FNPT

3/4”– 2” Swivel Fittings for Manifold Assemblies

Features

- Quick assembly of valve manifolds
- Easy disassembly for valve repair or maintenance
- No tools or glue required
- Encapsulated Nitril rubber O-ring prevents leaks on the swivel adapter

Specifications

- Oper. pressure: up to 120 psi (8.4 Bar)
- Body and swivel: polypropylene UV
- O-ring: Nitril rubber

How to specify

Model	Description	
Swivel manifold		
23-302	2 outlet 1”	
23-303	3 outlet 1”	
23-304	4 outlet 1”	
Swivel end cap with O-ring		
23-001	1” F	
23-153	1 1/2” F	
23-203	2”F	

How to specify

Model	Description	
Swivel cross		
23-011	1” F x 1” F x 1” F x 3/4” M	
Swivel adapter		
23-003	1” F x 1” M	
23-004	1” F x 3/4” M	
23-152	1 1/2” F x 1 1/2” M	
23-202	2” F x 2” M	
Swivel street elbow		
23-007	1” F x 1” M	

How to specify

Model	Description	
Nipple with O-ring		
23-014	1” M x 1” M	
23-015	1” M x 3/4” M	
23-150	1 1/2” M x 1 1/2” M	
23-200	2” M x 2” M	
Nipple		
23-012	1” M x 1” M	
swivel tee		
23-005	1” F x 1” F x 1” M	
Swivel elbow		
23-006	1” F x 1” F	
Swivel coupling		
23-002	1” F x 1” F	

BATTERY POWERED CONTROLLERS AND TIMERS

Automating irrigation systems does not have to be a difficult, time consuming job. DIG's extensive line of battery operated controllers and DC hose end timers are all designed to be easy to install and program; delivering years of reliable automatic operation, even in the harshest environments.

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400A Series Battery Operated Controllers

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710A Series Battery Operated Controllers

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7X0A Series, Two, Four and Six Stations Battery Operated Controllers

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710AP Series Battery Operated Controllers

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Hose End Battery Powered Controllers

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 in-line valve, anti-siphon valve, actuator or solenoid with three adaptors
- Sealed potting technique provides IP68 rated waterproofing
- Durable construction whether below-grade in a valve box or above-grade
- Battery life of up to three years
- 3 year warranty

Programming Features

- Four start times per day provides added flexibility for any type of watering application including sandy or clay soil
- Valve duration up to 5 hours 59 minutes in one-minute increments
- Custom programming with a weekly calendar, odd days, even days or intervals of one to thirty (1-30) days utilizing yearly calendar with leap year
- Rain Delay with up to 99 days with auto restart

Specifications

- Oper. pressure: up to 120 PSI (8.4 BAR)
- Power source: two AA alkaline batteries (not included)
- Available sizes:
  - 1", 1 1/2" and 2" swivel FNPT
  - 3/4", 1", 1 1/2" and 2" MNPT
- Temperature range: up to 130° F (54°C)
- Body and swivel: polypropylene UV
- O-ring: Nitril rubber

How to specify

Model	Description
400A controller only	
400A-000	Controller with 3 adapters
400A in-line valve	
400A-075	3/4"
400A -100	1"
400A-150	1 1/2"
400A-200	2"
400A in-line valve with BSP thread	
400A-075BSP	3/4"
400A -100BSP	1"
400A-150BSP	1 1/2"
400A-200BSP	2"

710A Series – Single Station Battery Operated Controllers

Features

- Single station battery operated controller available with in-line valve, anti-siphon valve, actuator or solenoid with three adaptors
- Seven button keypad with an integrated LCD display
- Easy to read AM/PM clock
- Automatic, semi-automatic and manual operation
- Withstand harsh climatic conditions
- Mount to valve or valve box wall
- Mounting configurations include valve clip and box wall mounting
- 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
- Non-volatile memory
- Rain sensor connection
- Daily and monthly programming complies with city and municipal watering restrictions
- 3 year warranty

Programming Features

- Watering durations in 1 minute increments from 1 minute to 5 hours and 59 minutes
- Five start times per day provides added flexibility for any type of watering application including sandy or clay soil
- 7-day programming schedule includes weekly, odd, even 1 to 30 days or every 1 to 12 hours in 1 hour increments
- Monthly water budgeting from 0%-200% in 5% increments
- Rain delay option with automatic restart up to 99 day
- Twenty preset programs of historical evopotranspiration (ET) for spray heads and drip irrigation with editing feature

Specifications

- Operating pressure: 10 to 150 PSI (.7 to 10.5 BAR)
- Power source: two AA alkaline batteries (not included)
- Battery life: up to 3 years
- Temperature range: 38°F to 130°F (3°C to 54°C)
- Solenoid: two-way magnetic latching, bi-directional pulse (included)

Controller & Valve Dimensions

- Controller only: 4.2" H x 5" L x 3.6" W
- Controller with 3/4" or 1" valves: 8" H x 5" L x 3.6" W
- (20 cm H x 12.7 cm L x 15 cm W)
- Controller with 1 1/2" or 2" valves: 10.5" H x 8.5" L x 5" W
(27 cm H x 22 cm L x 12.7 cm W)

How to specify

Model	Description
710A-000	Single station controller with solenoid
710A-011	With actuator
710A-075	With 3/4" in-line valve
710A-100	With 1" in-line valve
710A-150	With 1 1/2"" in-line valve
710A-200	With 2" in-line valve
710A-ASV-075	3/4" ASV with 710 battery controller
710A-ASV-100	1" ASV with 710 battery controller

7X0A Series – Two, Four, and Six Stations Battery Operated Controllers

Features

- Powered by two AA alkaline batteries with a safe period of 60 seconds
- Operates up to six stations, master valve, and a sensor
- Four Independent programs with five start times per each program
- Watering flexibility weekly, odd or even days, and cyclical with five start times per day per program
- Simple, icon based intuitive programming and EasyFlow™ navigation
- SimpleSmart™ historical ET feature that automatically adjusts irrigation schedules monthly
- Can operate any number of valves at the same time with up to three groups on six stations
- 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
- Daily and monthly programming restriction options to comply with city and municipal watering restrictions
- Display turns off automatically to conserve energy
- Semi-automatic and manual operation by valve or by program
- Easy On/Off button
- Brackets for solenoid and wall mounting options are included
- Utilizes RoHS compliant components
- Solenoid wires can be extended up to 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 S305 DC solenoid and one of DIG's seven adapters
- 3 year warranty

Programming Features

- Four programs with five start times per day
- Custom programming schedules with a weekly calendar, odd or even days of the month, or intervals from one to thirty (1-30) days utilizing yearly calendar with leap year
- Durations up to 5 hours and 59 minutes in one-minute increments
- 20 preset historical ET programs available for 10 climate zones, with 10 for drip irrigation and 10 for spray heads. Can be used with any irrigation setup and includes the option to review the new calculated duration
- Monthly seasonal adjustment that modifies the duration from 5% to 200% in 5% increments. Also can be used to fine-tune the preset ET program for each month
- On/Off button allows the user to turn off the controller system or an individual program and reactivate it as desired

Specifications

- Type: DC
- Body: IP68
- Power source: two AA alkaline batteries (not included)
- Power input per valve: constant 11 volt
- Wire configurations: up to six 18 inch red wires labeled for each valve, one black wire for master valve, two white wires for common and one looped yellow wire for sensor connections
- Temperature range: 38°F to +130°F (3°C to +54°C)
- Sensor connection: normally closed 6 inch (15 cm) looped yellow wire (16 AWG)
- Materials: high impact plastic
- Used with S-305DC 7-12 VDC normally closed, two-way latching solenoid and 30-92X adapters

How to specify

Model	Description
720A	720A • Two station
740A	740A • Four station
760A	760A • Six station

710AP Series – Battery Operated Controllers

Features

- Powered by two AA alkaline batteries
- Watering flexibility
- Up to five starts time per day
- Low battery indicator
- Display indicates if irrigation is set to water for the day and if any of the additional programming features are active
- Seven buttons with integrated high resolution screen
- Simple, icon based intuitive programming and EasyFlow™ navigation
- After fifteen 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 as well as to quickly activate or deactivate a propagation program outside of its set start and stop times when used in propagation mode
- Retractable coiled cord to the solenoid.
- Utilizes RoHS compliant components
- Reset option allows erasing of all programs to default settings except date and time
- Non-volatile memory holds programs indefinitely without batteries except date and time
- Completely waterproof (IP68)
- Rain sensor connection included
- Can be mounted on a range of solenoid valves
- Captured solenoid plunger and spring for easy maintenance
- Easily retrofits to most manufacturers' valves with one of DIG's seven adapters
- Three year warranty

Specifications

- Controller power input: constant 11 volt
- Seven keypad buttons with integrated liquid crystal display
- Temperature range: 38°F to +130°F (3°C to +54°C)
- Solenoid: 7-18 VDC, two-way latching, normally closed
- Solenoid control orifice: .065 (1.65 mm)
- Encapsulated solenoid thread: 11/16 in.-12 UN male thread
- Retractable solenoid wire: 4.1" (coiled length when extended, approximately 18 in.)
- Sensor connection: normally closed 6" (15 cm) AWM 1007 / 1569 16 AWG 300V VW-1-yellow wire
- Mounting options: globe valves

Programming

- Custom programming schedules with a weekly calendar, odd days, even days, intervals from one to thirty (1-30) days utilizing yearly calendar with leap year or 1 to 12 hours and 1 to 59 minutes.
- Five start times per day in normal mode, one start and stop time per day with watering intervals of every 1 minute to up to 12 hours in propagation mode.
- Durations up to 5 hours and 59 minutes in one-minute increments in normal mode or from 5 seconds to 59 minutes in 1 second increments in propagation mode.
- Monthly seasonal adjustment with option to reduce the program duration setting to 5% of normal or to increase it up to 200% in 5% increments without modifying the controller's program duration in irrigation schedules

- Irrigation suspension for up to 99 days with auto-restart; resumes irrigation automatically
- Program Off button allows the user to turn off the controller and reactivate it as desired as well as to quickly activate or deactivate propagation programs.
- Manual On/Off button with semi-automatic feature opens the valve and utilizes the program runtime to display time left in run. Can be pressed again to quickly shut off the valve.

How to specify

Model	Description
710AP-000	Including adapters for DIG, Rain Bird, Hunter and Toro valves
710AP-075	3/4" FNPT in-line valve
710AP-100	1" FNPT in-line valve
710AP-075BSP	3/4" in-line valve
710AP-100BSP	1" BSP in-line valve

BO92A Hose End Two Dial Timer

Features

- Six buttons with large integrated liquid crystal display
- Manual irrigation cycle via the controller
- Powered by one 9-volt alkaline battery
- Battery life: up to 1 year
- Low battery indicator
- Irrigation suspension override (rain mode)
- 3/4" FHT inlet and MHT outlet

Programming Features

- Watering durations from once every 3 hours to once every 14 days
- Ten preset durations from 2 minutes to 9 hours
- Duration can be changed after programming by setting the selector to a different setting
- Up to eight start times per day
- Program start time may be delayed in advance by any number of hours

Specifications

- Operating pressure: 15-80 PSI (1-5.5 BAR)
- Flow rate: up to 5.2 GPM at 30 PSI (19.7 L/H at 2 BAR)
- Temperature range: 38°F to 130°F (3°C to 54°C)
- Solenoid mechanism: durable electric motor
- Power source: 9-volt DC (one 9-volt alkaline battery, not included)
- Materials:
  - Body: ABS
  - Inner parts: acetal

Dimensions

- 6" W x 4" D x 6.5" H (15.24 cm D x 16.5 cm H)

How to specify

Model	Description
BO9D	3/4" hose end timer with LCD display
BO92A	3/4" hose end timer with 2 dials

BO9D Hose End Digital Timer

Features

- LCD screen
- Manual irrigation cycle via the controller
- Powered by one 9-volt alkaline battery
- Battery life: up to 1 year
- Low battery indicator
- Irrigation suspension override (rain mode)
- 3/4" FHT inlet and MHT outlet

Programming Features

- Easy to read AM/PM clock and program
- Watering durations from 1 minute to 11 hours and 59 minutes in 1 minute increments
- 7-day calendar schedule
- Four start times per day
- Emergency backup program of 5 minutes every 24 hours if no buttons are pressed after battery installation

Specifications

- Operating pressure: 15-80 PSI (1-5.5 BAR)
- Flow rate: up to 5.2 GPM at 30 PSI (19.7 L/H at 2 BAR)
- Temperature range: 38°F to 130°F (3°C to 54°C)
- Solenoid mechanism: durable electric motor
- Power source: 9-volt DC (one 9-volt alkaline battery, not included)
- Materials:
  - Body: ABS
  - Inner parts: acetal

Dimensions

- 6" W x 4" D x 6.5" H (15.24 cm D x 16.5 cm H)

How to specify

Model	Description
BO9D	3/4" hose end timer with LCD display
BO92A	3/4" hose end timer with 2 dials

LEIT AMBIENT LIGHT (SOLAR) POWERED TIMERS & CONTROLLERS

DIG has developed a fully self-sustainable line of irrigation timers and controllers that are powered entirely by ambient light (solar). DIG's LEIT® system requires no direct sunlight and can obtain enough power from ambient light to operate both day and night in any weather condition.

EVO100 – Single Station hose end controller.

LEIT®1 – Single Station controller that comes mounted on an anti-siphon valve, in-line valve, or actuator.

LEIT® 2ET – Weather-based, wireless system can adjusts daily irrigation programming based on data from a LEIT® Weather Station along with site information.

LEIT® 4000, LEIT® X, LEIT® XRC-Advanced, water-management irrigation controllers that deliver a cost-effective alternative to conventional AC-powered systems.

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47 LEIT - AMBIENT LIGHT CONTROLLERS

EVO 100 - Ambient Light (Solar) Powered Hose End Timer

DIG's EVO 100 ambient light (solar) powered Hose End Timer (Tap Timer) is the most innovative in DIG's new generation of premium automatic controllers and timers. Completely waterproof, the EVO 100 is a DC timer with a built-in solenoid and high flow diaphragm valve for reliable operation in all conditions.

Features

- Powered by a patented time-tested, internal photovoltaic module and microelectronic energy management system fueled by ambient light (solar)
- Watering flexibility with a selection of watering frequencies and four start times per day
- Manual irrigation cycle can be performed via the manual program button
- Energy conservation feature automatically turns the hose end timer screen off after fifteen minutes
- Easy rain sensor installation
- Waterproof construction
- Environmentally friendly and energy independent
- 3 year warranty
- Ideal for drip or sprinkler systems
- No batteries needed
- Attaches to any faucet for automatic watering

Programming Features

- Custom programming schedules with a weekly calendar, odd days, even days, or intervals from one to thirty (1-30) days utilizing yearly calendar with leap year
- Four start times per day
- Durations up to 5 hours and 59 minutes in one-minute increments
- Irrigation suspension for up to 99 days with auto-restart; resumes irrigation automatically
- Program Off button allows the user to turn off the controller and reactivate it as desired
- Manual On/Off button with semi-automatic feature utilizing the program runtime and shows the time left to run with quick override

Specifications

- Operating pressure: 10 to 100 PSI (.7 to 6.8 bar)
- Flow range: .1 to 8 GPM (.38 to 30 L/H)
- Temperature range: 38-130°F (3-54°C)
- Connection: female hose thread inlet (FHT) x male hose thread outlet (MHT) or British standard thread for tap (BSP)
- Power source: ambient light (solar)
- Sensor connection: yellow wire for closed contact rain sensor
- Power source: Ambient light (PVM)
- Input: 3,000 - 100,000+ LUX
- Seven keypad buttons with Integrated liquid crystal display
- Sensor connection: yellow wire for closed contact sensor
- Controller dimensions: 5.75" W x 6.76" H x 2.25" D (14.6 cm W x 17.1 cm H x 6.3 cm D)
- Unit Weight including plastic clam shell packaging: 1.02 pounds (.47 kg)
- Materials:
  - Timer housing: high impact plastic
  - Inlet valve and solenoid: glass reinforced nylon with stainless steel plunger and spring

How to specify

Model	Description
EVO-100	3/4" solar powered hose end timer w/LCD display
EVO-100I	Solar powered hose end timer (tap timer) w/LCD display – with BSP thread

Tip: Before programming, the EVO 100 requires 1-2 hours of charging in sunlight. It will stay fully charged with as little as 10 minutes of ambient light per day.

LEIT-1 Single Station Ambient Light (Solar) Powered Controller

Features

- Available with in-line valve, anti-siphon valve, actuator or solenoid with three adaptors
- No backup battery or AC power necessary — uses clean solar energy
- Simple, icon based intuitive programming
- Daily and monthly programming complies with city and municipal watering restrictions
- Manual On/Off button opens the valve and shows the time left to run
- Waterproof 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
- User reset option allows erasing of all programs to default settings except time, day and date
- Program On/Off button: allows the user to turn off the controller and reactivate it as desired
- Non-volatile memory
- Rain sensor connection
- Three year warranty

Programming Features

- Custom programming with a weekly calendar, odd days, even days or intervals of one to thirty (1-30) days utilizing yearly calendar with leap year
- Five start times per day provides added flexibility for any type of watering application including sandy or clay soil
- Duration up to 5 hours and 59 minutes in one-minute increments
- 20 Preset Historical ET programs with 10 Climate zones, 10 for drip irrigation and 10 for spray systems
- Monthly seasonal adjustment budget (0 to 200%) in 5% increments without modifying the controller's program duration; also can be used to fine-tune the preset ET program for each month
- Rain Delay with up to 99 days with auto restart

Specifications

- Power source: ambient light (PVM)
- Controller power input: 3,000 - 100,000+ LUX
- Seven keypad buttons with Integrated liquid crystal display
- Operating pressure: 10-150 PSI (.7-10.5 BAR)
- Temperature range: 14°F to +130°F (-10°C to +54°C)
- Solenoid: 7-12 VDC, two-way latching, normally closed
- Solenoid control orifice: . 065 (1.65 mm)
- Solenoid thread: 11/16 inch-12 UN male thread
- Retractable solenoid wire: 8.1" (coiled length when extended, approximately 36 in.)
- Sensor connection: Normally Closed 6" (15 cm) yellow wire (16 AWG)

- Controller with solenoid only included adapter: for Rain Bird, Hunter and Toro valves
- Valves type & sizes: globe 3/4", 1" , 11/2" and 2"
- Valves type & sizes: anti-siphon in 3/4" and 1"
- Materials:
  - Controller housing: High impact plastic
  - Solenoid housing: glass reinforced nylon
  - Plunger & spacer: 430F stainless
  - Plunger rubber cap: EPDM
  - O-ring: Buna-N

How to specify

Model	Description
LEIT1	Controller Only
See available valve adapters page 53	
LEIT-1 with Manual Valve Actuator	
LEIT1 MVA	3/4"–1
LEIT-1 with In-line Valve*	
LEIT1 ILV-075	3/4"
LEIT1 ILV-100	1"
LEIT1 ILV-150	1.5"
LEIT1 ILV-200	2"
LEIT-1 with Anti-siphon Valve*	
LEIT1 ASV-075	3/4"
LEIT1 ASV-100	1"

LEIT-2 Handset

DIG's LEIT-2ET weather based wireless irrigation control system is composed of a 2 station controller, wireless handset and wireless weather station. The LEIT-2ET system is programmed to monitor, control and adjust irrigation schedules for each zone through evapotranspiration (ETo) data transmitted hourly and daily during daytime from a local weather station and site information received from the LEIT RC2ET handset.

Handset Features

- Simple, icon-based programming
- Programs the LEIT-2ET controller, reviews status information, updates ET information, checks history reports, adjusts budgeting, programs rain delays and performs manual run or tests
- Environmentally friendly - RoHS compliant components

Programming Features

- 2 independent programs with 4 start times per program
- Scheduled watering times run from 1 minute to 5 hours and 59 minutes duration
- 365-day calendar with leap year
- Custom programming with 7-day calendar or intervals from 1-39 days, odd, even or every day rotation
- Rain delay of up to 99 days with auto-restart
- Monthly "Off" feature allows it to be inactive any month of the year
- Permanent Event "Off" feature allows for 3 inactive days per year
- Water budgeting from 10-200% in 10% increments
- Site or zone information input into each valve when ET is active with ET editing feature
- History Report on valve run times, ET savings in percentage and total time saved
- Manual test and manual run performed via the RC2ET handset
- Global Stop command turns off all valves with the same Client ID within radio range
- Wind sensor setting can be set to shut down any controller within range if wind exceeds speeds of 8-25 miles per hour (12.9-40 Km/h)

Specifications

- Remote handset input: 12-volt DC
- Power supply: rechargeable3.6V Ni/MH
- Wireless transmitter power and frequency: 7 dBm @ 920 MHz / -7 dBm @ 868 MHz / -7 dBm @ 866 MHz
- Dimensions: 2.25" W x 5.5" L including antenna (5.72 cm W x 13.97 cm L)

How to specify

Model	Description
LEIT RC2ET remote control handset	
LEIT-RC2ET	USA, Canada & Japan
LEIT-RC2ET-I	Europe & South Korea (Black)
LEIT-RC2ET-H	Hong Kong, Singapore & Macau (Black)
LEIT-RC2ET-A	Australia

LEIT-2 ET Two Stations Ambient Light (Solar) Powered Wireless Controller

DIG's LEIT-2ET weather based wireless irrigation control system is composed of a 2 station controller, wireless handset and wireless weather station. The LEIT-2ET system is programmed to monitor, control and adjust irrigation schedules for each zone through evapotranspiration (ETo) data transmitted hourly and daily during daytime from a local weather station and site information received from the LEIT RC2ET handset.

Features

- Environmentally friendly- RoHS compliant components
- Waterproof, IP68 compliance
- PVM and microelectronic management system fueled by ambient light (solar).
- Operates up to 2 stations and a rain sensor
- Unique Client ID identity code for controller and handset
- If ET is activated, information provided by the handset and information transmitted from the weather station sensors are used to override or adjust daily scheduled irrigation programs
- Utilizes ISM band radio frequency band (915MHz NA, 866.5MHz Hong Kong, 868MHz International) CE, IC, FCC certified, Australia and Hong Kong compliant
- Non-volatile memory retains program and controller integrity
- Program stacking feature prevents hydraulic overload
- Custom station grouping allows controller to operate the two stations simultaneously if hydraulic limitations are not exceeded
- Available with 18" (45 cm) color-coded 16 gauge wires for each valve and rain sensor
- 3 mounting configurations including green, tan and purple valve box mounts, direct-to-valve clip mounting and column mounting with 25" (63 cm) or 50" (127 cm) mounting columns
- 3 year manufacturer warranty

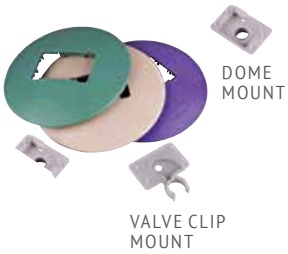
Specifications

- Power source: ambient light (PVM)
- Controller power input: 3,000 – 100,000+ LUX
- Operating temperature: 32°F to 158°F (0°C to 70°C)
- Power input: 9-volt DC pulse
- Body: IP68
- Number of stations: 2
- Station capacity: one 7-12 volt DC pulse, two-way latching solenoid (S-305 DC) per each set of red and white wires
- Controller wires gauge: 16 AWG
- Wireless transmitter power and frequency: -7 dBm @ 920 MHz / -7 dBm @ 868 MHz / -7 dBm @ 866 MHz
- Rain sensor connection: normally closed
- Dimensions: 3" W x 5.5" L including antenna (7.62 cm W x 13.97 cm L)

How to specify

Model	Description
LEIT-2ET system controller	
LEIT-2ET	USA, Canada, Australia & Japan
LEIT-2ET-I	Europe & South Korea
LEIT-2ET-H	Hong Kong, Singapore & Macau

LEIT-2 ET Ambient Light (Solar) Powered Wireless Weather Stations & Accessories



Weather Station Features

- Weather data transmitted is stored by the controllers and is reviewable by the LEIT RC2ET handsets
- Self-emptying tipping bucket rain gauge reads rainfall in 0.01 inch (.254 mm international) increments
- The LEIT WWS alert LEIT-2 ET controllers to completely stop irrigation in extreme weather conditions
- Controller setting allows the LEIT WWS weather station to completely stop irrigation in extreme weather conditions)

Weather Station Specifications

- Power source: ambient light (PVM)
- Controller power input: 3,000 – 100,000+ LUX
- Operating temperature: 14°F to 140°F (-10°C to 60°C)
- Wireless transmitter power and frequency: -7 dBm @ 920 MHz / -7 dBm @ 868 MHz / -7 dBm @ 866 MHz
- Humidity range and resolution: 1-99%(100% inches Hg)
- Relative humidity accuracy: +/- 2%
- Temperature resolution and accuracy:- 40°F to +170°F (-40°C to +77°C) +/- 1%
- Wind speed resolution and accuracy: 0MPH (KPH) to 30 MPH (49 KPH) +/- 1%
- Rainfall resolution and accuracy: .01 inches accuracy +/- 2% @ 2" per hour
- Dimensions: 6.07" W x 9.5" H x 13.65" D (15.42 cm W x 24.13 cm H x 34.67 cm D)
- Mounting connection: 1"x12" mounting column and integrated clamp with two screws

Features

- The LEIT-2 ET has three mounting configurations to fit any application
- Valve clip mounting can attach the controller directly to the S-305DC solenoid
- Valve box mounting with three different colors: green, tan and purple

Features

- Column mounting allows the controller to be above the ground using 25" or 50" galvanized mounting column

How to specify

Model	Description
LEIT-2ET weather station	
LEIT WWS	USA, Canada, Australia & Japan
LEIT WWS-I	Europe & South Korea
LEIT WWS-H	Hong Kong, Singapore & Macau

Features

- Easily keeps a full charge out in the field with the convenient car charger
- Protect handset with nylon carrying case

How to specify

Model	Description
For use with LEIT-2 controllers only	
30-830	LEIT-2 controller valve box dome attachment with 8 screws • green
30-831	LEIT-2 controller plastic column attachment
30-832	LEIT-2 controller valve clip attachment
30-835	LEIT-2 controller valve box dome attachment with 8 Screws • tan
30-836	LEIT-2 controller valve box dome attachment with 8 Screws • purple
MCOL2S	LEIT-2 controller 25" (63cm) mounting column
MCOL2L	LEIT-2 controller 50" (128cm) mounting column
For use with LEIT-2 ET handsets only	
30-850	LEIT RC2 handset power supply 120 VAC/60 H2, 12 VDC @ 150 mA
30-851	LEIT RC2 handset car charger • 4ft Cable
30-852	LEIT RC2 handset holder

LEIT 4000

The LEIT 4000® is a self-contained, water management irrigation controller that harnesses ambient light (solar) as a power source, helpful in today's sustainable green solutions. The LEIT 4000 controller's easy to navigate features include four independent programs with three start times per day for each valve, password protected entry, monthly budgeting of up to 200%, rain delay of up to 99 days with automatic restart, manual run via the program or valve and status reports that include current and past month information for each valve. A compact and time-tested photo-voltaic module powers the unit day and night in any kind of weather conditions.

Features

- Operates four, six, or eight stations and a master valve or pump start without AC power hookup, batteries or conventional solar panels (master valve or pump start replaces station eight when required)
- Non-volatile memory holds programs indefinitely without batteries
- Programming is easy using a self-guiding menu and four durable sealed buttons
- Multi-lingual software (Spanish, Italian, and French)

- Power is provided by an internal, ultra-high efficiency photovoltaic module and microelectronic energy management system fueled by ambient light
- USB port allows for software updates
- Lightning protection; the controller is fully isolated from electrical ground, offering virtual immunity to ground currents from overhead power lines and/or close proximity lightning strikes
- Simple to install, easy-access wire connector accommodates standard irrigation wire up to 12 gauge
- Environmentally friendly; uses clean, renewable solar power
- Assign rain, moisture or freeze sensors to an individual valve or to the entire system using SKIT 8821-4 adapter
- Super-tough lens protects the photovoltaic module from moisture, dust, chemicals and impact damage

Dimensions

- 9.4" H x 5.7" W x 3.2" D (23.9 cm H x 14.5 cm W x 8 cm D)

Programming Features

- Four independent programs with three start times per program allow for mixed irrigation applications
- Custom programming with 7-day calendar or intervals of 1-39 days in odd/even or every day rotation
- Watering durations from 1 minute to 5 hours and 59 minutes
- Status Report for each valve verifies operating time for past and current month
- Rain delay up to 99 days with auto-restart
- Water budgeting from 10-200% in 10% increments
- Vandal resistant, waterproof enclosure fashioned from super tough material

How to specify

Model	Description
LEIT 4004	Four station plus MV/P
LEIT 4006	Six station plus MV/P
LEIT 4008	Eight station including MV/P
LEIT 4004K	Four station plus MV/P with LEIT key
LEIT 4006K	Six station including MV/P with LEIT key
LEIT 4008K	Eight station plus MV/P with LEIT key

A practical and affordable solution for

- Parks
- Cities
- Common Areas
- Zoos
- Highways
- Median Strips
- Mitigation sites
- Cemeteries
- Airports
- School Campuses

Controller Specifications

- Power source: ambient light (PVM)
- Controller power input: 3,000 – 100,000+ LUX
- Number of stations: 4, 6 or 8
- Four keypad buttons with integrated liquid crystal display
- Power output to the solenoid actuator: bidirectional (positive-negative) pulses @ 5 volts DC
- Station capacity: one LEMA 1600HE per each set of red and white wires
- USB port for software update: Type B
- Operational temperature: 14°F to 140°F (–10°C to 60°C)
- Storage temperatures range: –40°F to 194°F (–40°C to 90°C)
- Sensor connection: normally closed, none active
- Entry: LEIT key to energize the liquid crystal display (not included, uses a 9 volt battery)
- Dimensions: Height 9.4 inches (23.9 cm); Width 5.7 inches (14.5 cm); Depth 3.2 inches (8 cm)
- Weight: 2.6 lbs. (1.2 kg)
- Material: Controller housing and clear lens: high impact plastic (polycarbonate)

Security

- Programming password eliminates potential user error
- Password can be changed at any time during program setup activation
- Standard stainless steel lock secures weather resistant exterior panel

LEIT X & LEIT XRC

Controller Features

- Environmentally friendly, using light (solar) as a source of energy
- Power is provided by photovoltaic module (PVM) and microelectronic management system fueled by ambient light (solar)
- Operates up to 28 stations plus a master valve or pump start
- Use with the 1600HE solenoid actuator, which mounts on most brand name valves using one of seven valve adapters
- Remote programming and management capability using the LEIT Link remote control handset
- Radio frequency module operates in the ISM band 900-928 MHz US
- Communication distance of up to 800 feet (240 m) line of site
- Non-volatile memory retains program and controller integrity (excluding time)
- Bilingual software available in English-Spanish, English-Italian and English-French
- Lightning protection - the controller is isolated from electrical ground, offering immunity to ground currents from overhead power lines and/or close proximity lightning strikes
- Simple to install, easy access wire connector accommodates standard irrigation wire up to 12 gauge
- Terminal strip can handle 28 hot wire stations, MV/P wire and 2 common wires
- Can connect rain, moisture or freeze sensors to an individual valve or to the entire system using a SKIT 8821-4 switch type sensor (adapter is required)
- 3 year manufacturer warranty
- Vandal resistant, waterproof enclosure fashioned from super tough material endures extreme hot, cold, wet or dry weather

Programming Features

- Four independent programs with three start times per program
- Custom programming with 7-day calendar, odd/even days, or once every 1-39 day rotation
- Watering durations from 1 minute to 5 hours and 59 minutes
- Status report provides information on active programs or valves, month deactivations, rain stop, remote or local mode, and station short circuit if activated
- Rain delay up to 99 days with auto-restart
- Global monthly water budgeting from 10- 200% in 10% increments
- Custom grouping of stations allows the controller to operate any number of stations per group together in any of the programs (if hydraulic limitations are not exceeded)
- Manual run allows for repeat testing of individual valves, semi-automatic cycling by station with quick override via manual setup, skip to the next valve, or full program run
- History reports provide operating history on each valve with total programmed watering time and total manual run time. This information is available for the current month and the previous 11 months, and the current year versus previous year
- Monthly off option allows shut-off of irrigation for any month of the year. All months are active by default
- Open or short circuit detection allows the controller to detect shorts and/or open wires. The short and open valve test is deactivated by default.

Controller Specifications

- Power source: ambient light (PVM)
- Controller power input: 3,000 -100,000+LUX
- Number of stations:

o Model LEIT X: 10, 12, 16, 20, 24, and 28 station plus MV/P

- Four keypad buttons with integrated liquid crystal display
- Power output to the solenoid actuator: bi-directional (positive-negative) pulses @ 5 volts DC
- Station capacity: one LEMA 1600HE per each set of red and white wires
- Radio frequency: radio module operates in the ISM band 900-928 MHz US and Australia (866/869 MHz Europe)
- Operational temperature: 14°F to 140°F (–10°C to 60°C)
- Storage temperatures range: –40°F to 194°F (–40°C to 90°C)
- Sensor connection: normally closed, none active
- Entry: LEIT key to energize the liquid crystal display not included
- Controller dimensions: Height 12 3/8 inches (30.4 cm); Width 7.5 inches (19 cm); Depth 4.5 inches (11.4 cm)
- Weight: 4.9 lbs. (2.2 kg)
- FCC approved, part 15 of FCC rules for spared spectrum, international radiators, and part 15 sub C specification

LEIT X & LEIT XRC

- Materials: Controller housing and clear lens high impact plastic (polycarbonate)

Security

- Programming password eliminates potential error by another user
- Password can be changed at any time during program setup
- Standard stainless steel lock secures weather resistant exterior panel

Remote Control Handset

The LEIT Link® remote control handset allows the user to operate the LEIT XRC from a distant of up to 800 feet line of site. The LEIT Link® handset allows the user to review, test, and manage any number of LEIT XRC controllers on the site. The LEIT Link remote control handset incorporates all the features and software flow of the LEIT X RC controller. The handset allows the user a wide range of flexibility using wireless communication.

Programming Features

The LEIT Link® handset can read status reports, modify settings, and temporarily interrupt a running program to do a manual run, test a valve, or skip to the next valve. When connecting to a LEIT XRC, the current running program and current open valve information is provided on first contact. Then, in status mode, the handset can review time, date, revised budgets, sensor activation (if rain stop is active), and solenoid and wire integrity. In the history report, it can review hourly usage on each valve for a period of up to two months.

Handset Specifications

- MUTI-PRO™ Remote Control Handset: communicate with up to 99 controllers with the same secure ID code
- Radio frequency: radio module operates in the ISM band 900-928 MHz US and Australia (866/869 MHz Europe)
- Battery recharge: up to four hours of continuous operation
- Remote handset Input: 12-volts using 3.6-volt Nim/MH rechargeable cell battery pack
- Remote handset wall charger: 120AVC/60 H2, 12-volt DC @ 250 mA (included)
- FCC approved, part 15 of FCC rules for spared spectrum, international radiators, and part 15 sub C specification
- Dimensions: 4.0” W x 8.6” H (10.1 cm W x 21 cm H)
- Material: UV resistant, high impact plastic

How to specify

Model	Description
LEIT X system controller	
LEIT X10	10 station plus MV/P
LEIT X12	12 station plus MV/P
LEIT X16	16 station plus MV/P
LEIT X20	20 station plus MV/P
LEIT X24	24 station plus MV/P
LEIT X28	28 station plus MV/P
LEIT XRC system controller	
LEIT XRC04	4 station plus MV/P
LEIT XRC06	6 station plus MV/P
LEIT XRC08	8 station plus MV/P
LEIT XRC10	10 station plus MV/P
LEIT XRC12	12 station plus MV/P
LEIT XRC16	16 station plus MV/P
LEIT XRC20	20 station plus MV/P
LEIT XRC24	24 station plus MV/P
LEIT XRC28	28 station plus MV/P
LEIT Link remote control handsest	
LEIT MULTI-PRO™	up to 99 controllers
LEIT MASTER™	99 controllers with 99 groups

LEIT Key

Features

- Powered by a 9-volt battery (not included)
- Prevents unauthorized access to the controller's schedule and programs
- Used to power the LEIT 4000, LEIT X and LEIT XRC

Specifications

- Power: Battery 9V Battery

How to specify

Model	Description
LEIT KEY	Programming tool to enter controller

Switch Type Sensor Adapter

Features

- Waterproof construction
- Easy to install
- Adapts to a wide range of sensors

Sensor Recommendation

- Recommended rain sensors are the Hunter Mini-Clik and the Rain Bird RSD
- Recommended moisture sensors are the Irrometer WEM-B
- Recommended freeze sensor is the Hunter Freeze Click

Specifications

- Compatible with normally closed switch type sensors only
- Comes with 12" 12 gauge wire
- Weight: approx. 2 oz (56 g)
- Length: approx. 1.9" (4.7 cm)
- Diameter: approx. 1.1" (2.7 cm)

How to specify

Model	Description
RKIT-8810S	Relay interface module for 24 AC/DC-230V AC/DC (for 4000, X, & XRC)
SKIT8821-4	Sensor adapter

Relay Interface Kit

Features

- Waterproof construction
- Easy to install
- Adapts to a wide range of sensors

Specifications

- High power V2 pulse input
- Rated load 10A, 250 AC or 30V DC
- Maximum voltage 380 VAC 125 VDC
- Weight: approx. 8 oz (220 g)
- Length: approx. 1.25" (3.1 cm)
- Diameter: approx. 0.75" (1.9 cm)

How to specify

Model	Description
RKIT-8810S	Relay interface module for 24 AC/DC-230V AC/DC (for 4000, X, & XRC)
SKIT8821-4	Sensor adapter

Mounting Columns

Features

- Mounting columns are available with two different OD: small OD for the 4000 series and larger OD for the LEIT X series
- Includes mounting kit

Specifications

- 4000 Series column weight:
  - Short: approx. 9 lbs (4.1 kg)
  - Long: approx. 13.5 lbs (6.1 kg)
- X Series column weight:
  - Short: approx. 11 lbs (5 kg)
  - Long: approx. 14 lbs (6.3 kg)
- Material: Galvanized steel

How to specify

Model	Description
MCOL-4000	Mounting column 32" (81cm) short
MCOL-4000L	Mounting column 48" (122cm) long
MCOLXS	Mounting column 35" (89cm) short
MCOLXL	Mounting column 51" (130cm) long
MKIT 4000	Column mounting kit for LEIT 4000
MKIT X	Column mounting kit for LEIT X & XRC

Stainless Steel Enclosures

Features

- Manufactured using the highest quality stainless steel
- Weatherproof, rustproof and extremely durable
- Grid design on top ensures light access to photovoltaic module
- Easy to install with a standard 3/8" socket wrench
- Installation of the enclosure does not require the controller to be removed or modified in any way
- Airflow holes on top and bottom of each enclosure control the temperature inside
- Each enclosure comes with a high security stainless steel disc-lock to ensure only authorized access to the controller

Specifications

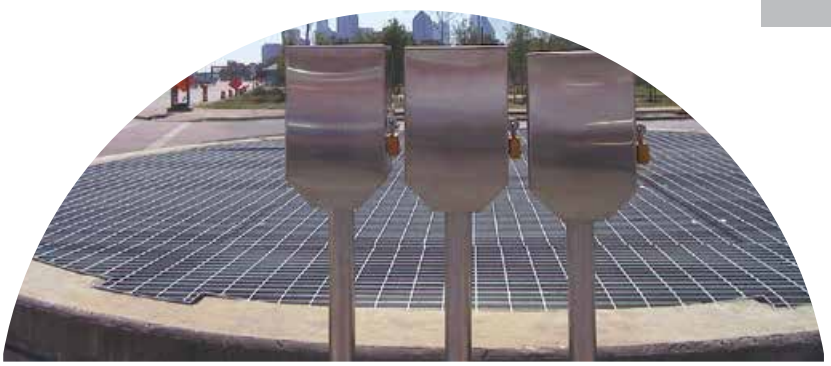
- 4000 Series weight: 6.2 lbs (2.8 kg)
- X Series weight: 10.9 lbs (5 kg)
- 14 AWG 304 stainless steel case

Dimensions

- 4000 Series dimensions:
  * 10.8" H x 7.5" W x 3.8" D
  * (27.4 cm H x 19 cm W x 9.6 cm D)
- X Series dimensions:
  * 14" H x 8.7" W x 6" D
  * (35 cm H x 22 cm W x 15 cm D)

How to specify

Model	Description
ENCL-X	LEIT X and XRC series stainless steel enclosure
ENCL-4000	LEIT 4000 series stainless steel enclosure



SOLENOIDS, VALVES AND ACTUATORS

DIG's comprehensive line-up includes valve actuators, in-line (globe) and heavy duty anti-siphon valves; all are equipped with reliable LEMA actuators, AC or DC latching solenoids and available in sizes from ¾" to 2".

LEMA 1600HE actuators (for LEIT 4000 and X series controllers) and S305DC solenoids (for LEIT-2ET, 700A series controllers) can be installed on a wide range of solenoid valves by using one of DIG's 30-9XX adapters.

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LEMA Solenoid & Valve

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9VDC DC Solenoid

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Solenoid Adapters

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9VDC Anti-siphon Valves Valves, In-line Valves & Actuators

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24 VAC Solenoids

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24 VAC Anti-siphon Valves, In-line Valves & Actuators

LEMA 1600HE DC Solenoid and 160HE DC In-line Valve

Features

- Designed to work with LEIT 4000, LEIT X and XRC controllers only
- Adaptable to a wide range of valves using DIG valve adapters
- Potted technique for sealed construction
- Captured plunger and spring for reliable operation

In-line Valve Features

- Internal bleed, manual override for manual ON/OFF
- Constructed of glass reinforced nylon with a stainless steel spring; non-corrosive materials
- High flow with low pressure loss
- Normally closed
- Easy in-line maintenance
- Smooth valve opening and closing prevents pressure surge hazards
- Rugged, reinforced self-cleaning diaphragm provides reliable operation even with contaminated water
- Flow control handle for water flow adjustment and manual shutoff
- Manual internal bleed override

Specifications

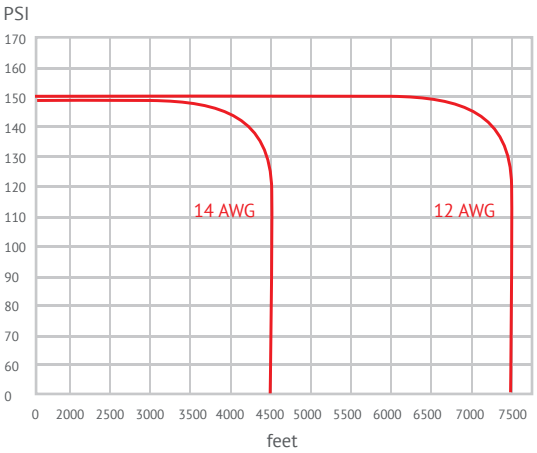
- Pressure range: 10-150 PSI (.7-10.5 BAR)
- Weight: 5.3 oz. (150 g)
- Temperature range: up to 150°F (65°C)
- Control orifice: .065 (1.7 mm)
- Leads: 18" (45 cm) AWM 1007/ 1569 16 AWG 300V VW-1 red and white wires
- Materials:
  - Solenoid: glass reinforced nylon
  - Inside plunger & spacer: 430F stainless
  - Plunger rubber cap: EPDM
  - O-ring: Buna-N
- Length: 3.08 length (7.8 cm)

How to specify

Model	Description
LEMA 1600HE	Solenoid with internal bleed manual override
160HE-075	LEMA 1600HE on 3/4" in-line valve
160HE-100	LEMA 1600HE on 1" in-line valve
160HE-150	LEMA 1600HE on 1 1/2" in-line valve
160HE-200	LEMA 1600HE on 2" in-line valve

Maximum Wire Run

For Use with LEIT 4000, X and XRC Controllers



S-305DC 9VDC Solenoid

Features

- Designed to work with a single and multi stations battery operated controllers
- Adaptable to a wide range of valves using our valve adapters
- Potted technique for sealed construction
- Two color-coded wires
- Captured plunger and spring for reliable operation

Specifications

- Operating pressure: 10-150 PSI (.7-10.5 BAR)
- Weight: 4.3 oz (122 g)
- Temp. range: 38°F to 150°F (3°C to 65°C)
- Solenoid thread: 11/16"-12 UN
- Control orifice: .065 (1.7 mm)
- Diameter: 1.230" (3.12 cm)
- Materials: glass reinforced nylon and 430F stainless, inside plunger & spacer: 430F stainless, inside plunger & spacer: 430F stainless, plunger rubber cap: EPDM and O-ring: Buna-N

Electrical Specifications

- Two-way magnetic latching solenoid
- Coil operating data:
  - Coil resistance 4.7 +/- 0.3 Ohms, minimum pulse 10 mS duration at 7-9 volts
  - Red + and white – to latch open
  - Red – and white + to latch closed
- Control orifice: .065 (1.7 mm)
- Leads: 18" (45 cm) AWM 1007 / 1569 16 AWG 300V VW-1- red/white

How to specify

Model	Description
	For use with LEIT-2 ET controllers only
S-305DC	DC Solenoid (6-9 volt) with 11/16"-12 UN thread
S-305DC-10	DC Solenoid (6-9 volt) with 11/16"-12 UN thread (pack of 10)
S-305DCA	DC Solenoid (6-9 volt) with 11/16" - 12 UN thread and 4 adapters for DIG, Rainbird, Toro and Hunter

Valve/Solenoid Adapters

Features

- For use in conjunction with the S-305DC and 1600HE DC solenoids
- Use with most brand name valves
- Made of durable plastic
- Female thread: 11/16"-12 UN

Materials

- Adapter: nylon
- O-ring: Buna-N
- Sleeve: vinyl

How to specify

Model	Description
	For use with LEMA 1600HE and S-305DC solenoids only
30-920	BERMAD series 200, HIT series 500, DOROT series 80,GRISWOLD series 2000, DW and BUCKNER series VB valves
30-921	RAIN BIRD DV, DVF, PGA, PEB (1" only), GB, EFB-CP, BPE, PESB (1" only) and ASVF valves
30-922	HUNTER series ASV, HPV, ICV, PGV, SRV, IBV and ASVF valves
30-923	WEATHERMATIC series 12000, 21000, 8200CR valves
30-924	IRRITROL series 100, 200B, 205, 217B, 700, 2400, 2500, 2600 and TORO series 220, P220 valves
30-925	SUPERIOR series 950, HUNTER HBV and TORO series 252 valves (1.5" and larger)
30-926	RAIN BIRD series PEB and PESB (1 1/2" and 2"only) valves

S-305DC In-line and Anti-siphon Valves with DC Actuator

9VDC Actuator Features

- Contains all parts required to convert most 3/4" and 1" brass or plastic manual anti-siphon valves
- Built in flow control
- Internal or external manual bleed override for manual ON/OFF
- Smooth valve opening and closing prevents pressure surge hazards
- High flow with low pressure loss
- Normally closed
- Easy in-line maintenance
- Constructed of glass reinforced nylon with a stainless steel spring; non-corrosive materials

9VDC 3/4" - 2" In-line Valves Features

- Constructed of glass reinforced nylon with a stainless steel spring; non-corrosive materials
- High flow with low pressure loss
- Normally closed
- Easy in-line maintenance
- Smooth valve opening and closing prevents pressure surge hazards
- Rugged, reinforced self-cleaning diaphragm provides reliable operation even with contaminated water
- Flow control handle for water flow adjustment and manual shutoff
- Manual internal bleed override via the solenoid

9VDC 3/4" and 1" Anti-siphon Valve Features

- Anti-siphon valve combines a remote control valve and backflow preventer in one unit
- Constructed of UV-resistant, glass reinforced nylon bonnet with a stainless steel spring and non-corrosive materials
- High flow with low pressure loss
- Operates in a wide range of flow rates
- Flow control handle for water flow adjustment and manual shutoff
- External or internal manual bleed allows quick and easy valve opening and closing
- Excellent leak-free performance utilizing self-cleaning EPDM diaphragm and seal design assembly
- Encapsulated EPDM seal washer built-in into the atmospheric backflow assembly
- Manual or automatic operation
- Encapsulated solenoid plunger for quick and easy service and maintenance

How to specify

Model	Description
Use with 740.000 and 746.000 DC controllers	
305DC-013	DC solenoid with 3/4" or 1" actuator

How to specify

Model	Description
For use with LEIT-2 controllers only	
305DC-ASV-075	3/4" ASV with 305DC solenoid
305DC-ASV-100	1" ASV with 305DC solenoid - 1" ASV

How to specify

Model	Description
For use with LEIT-2 controllers only	
305DC-070	DC solenoid on 3/4" in-line valve with no flow control
305DC-075	DC solenoid on 3/4" in-line valve
305DC-100	DC solenoid on 1" in-line valve with flow control
305DC-105	DC solenoid on 1" in-line valve with no flow control
305DC-150	DC solenoid on 1 1/2" in-line valve
305DC-200	DC solenoid on 2" in-line valve

24 VAC Solenoid

Features

- Low sensitivity to dirt and voltage fluctuations
- Replaceable plunger tip
- Silicone O-ring
- Heavy duty construction

Electrical Specifications

- Current: .25 (7.7 VA)
- Holding current: 0.125A (3.84 VA)
- Power consumption: 1.7/2.2 watts
- Solenoid: 24 VAC (50-60 cycles)
- Solenoid thread: 3/4”-20 UNES-2A

How to specify

Model	Description
33-005	3/4” -20 24 VAC thread solenoid

24 VAC Anti-siphon Valves, In-line Valves & Actuators

24 VAC Anti-siphon Valve Features

- Anti-siphon valve combines a remote control valve and backflow preventer in one unit
- Constructed of UV-resistant, glass reinforced nylon bonnet with a stainless steel spring and non-corrosive materials
- High flow with low pressure loss
- Operates in a wide range of flow rates
- Flow control handle for water flow adjustment and manual shutoff
- External or internal manual bleed allows quick and easy valve opening and closing
- Excellent leak-free performance utilizing self-cleaning EPDM diaphragm and seal design assembly
- Encapsulated EPDM seal washer built-in into the atmospheric backflow assembly
- Manual or automatic operation
- Encapsulated solenoid plunger for quick and easy service and maintenance

24 VAC In-line Valve Features

- Solenoid thread: 3/4”-20 UNES-2A
- Internal bleed, manual override for manual ON/OFF
- High flow with low pressure loss
- Rugged, reinforced self-cleaning diaphragm provides reliable operation even with contaminated water
- Flow control handle for water flow adjustment and manual shutoff
- Low sensitivity to dirt and voltage fluctuations
- Replaceable plunger tip
- Silicone O-ring
- Heavy duty construction

Electrical Specifications

- Current: .25 (7.7 VA)
- Holding current: 0.125A (3.84 VA)
- Power consumption: 1.7/2.2 watts
- Solenoid: 24 VAC (50-60 cycles)
- Solenoid thread: 3/4”-20 UNES-2A

24 VAC Manual Valve Actuator Features

- Built in flow control
- Internal or external manual bleed override for manual ON/OFF
- Smooth valve opening and closing prevents pressure surge hazards
- Constructed of glass reinforced nylon with a stainless steel spring and non-corrosive materials
- High flow with low pressure loss
- Normally closed
- Easy in-line maintenance

Specifications

- Operating pressure: 20 to 150 PSI (1.4 - 10 BAR)
- Water temperature range: up to 110°F (43°C)
- Body & Cover: glass reinforced nylon
- Diaphragm: EPDM
- Metal parts and screws: stainless steel 18-8
- O-ring: Buna-N

How to specify

Model	Description
33-AC-ASV-075	3/4” ASV with 24 VAC solenoid
33-AC-ASV-100	1” ASV with 24 VAC solenoid

How to specify

Model	Description
For use with AC controllers only	
33-001	3/4” in-line valve with solenoid no flow control
33-002	1” in-line valve with solenoid no flow control
33-014	3/4” in-line valve with solenoid
33-015	1” in-line valve with solenoid
33-016	1 1/2” in-line valve with solenoid
33-017	2” in-line valve with solenoid

How to specify

Model	Description
For use with AC controllers only	
33-AC-MVA	Actuator with AC solenoid

RIK-018

General purpose relay interface DC latching switch type module.

Features

- Use for operation of pump fertilizer injector, fountain, light or any electrical equipment
- Can be used with 720A, 740A and 760A
- RoHS Compliant

Specifications

- Relay function: Single Coil Latching
- Input Voltage: Rated 3VDC
- Input Rated Current: 67mA
- Input Minimum Set/Reset Signal Width: 20miliSecond at 23 Degree C
- Input Coil Resistance: 45 Ohms
- Contact Rated Load: 10Amp and 250VAC, or 10Amp 30VDC
- Contact Maximum Carrying Current: 10 Amps
- Contact Maximum Resistance: 30 milliOhm
- Insulation Resistance: 1,000 Mega Ohms
- Weight: 50g, or 1.76oz
- Length of Input (red, white) and Output (black, black) wires: 45cm, or 18in

In-line Valve Pressure Loss & Specifications

Performance pressure loss (PSI)

Flow Rate (GPM)	Size 3/4"	1"	1 1/2"	2"
5	3	3	–	–
9	3.5	3	–	–
13	4.2	4	–	–
18	6	4.5	–	–
20	–	–	2.5	–
22	7.2	5	–	–
26	8.5	5.5	–	–
31	–	7	–	–
35	–	8.5	2.8	2.7
45	–	–	3.2	2.8
55	–	–	3.2	3.1
65	–	–	4.2	4.3
90	–	–	5.0	5.3
120	–	–	6.6	6
132	–	–	8.5	8.5
154	–	–	–	9.1
160	–	–	–	–

Performance pressure loss (BAR)

Flow Rate (m3/h)	Size 3/4"	1"	1 1/2"	2"
1	0.21	0.20	–	–
2	0.25	0.23	–	–
3	0.30	0.28	–	–
4	0.42	0.33	–	–
5	–	–	0.19	–
6	0.60	0.39	–	–
7	–	0.51	–	–
8	–	0.60	0.20	0.18
10	–	–	0.22	0.19
13	–	–	0.23	0.20
15	–	–	0.30	0.22
20	–	–	0.35	0.30
27	–	–	0.46	0.37
30	–	–	0.60	0.42
35	–	–	–	0.60
36	–	–	–	0.64
–	–	–	–	–

Specifications In-line valve

- Flow rate:
- 3/4": .1-28 GPM (.23-6.4 m3/h)
- 1": .2-35 GPM (0.45-8 m3/h)
- 1 1/2": 20-132 GPM (4.5-30 m3/h)
- 2": 30-160 GPM (6.8-36 m3/h)
- Operating pressure: 10-150 PSI (.7-10.5 BAR)
- Temperature range: up to 170°F (76.2°C)
- Body style: globe
- 3/4", 1", 1 1/2" and 2" FNPT inlet and outlet

Anti-siphon Valve Pressure Loss & Specifications

Specifications anti-siphon valve

- Pressure range: 10 to 150 PSI (.69 - 10 BAR)
- 3/4" ASV flow rate: .25 to 20 GPM (.95-76 LPM)
- 1" ASV flow rate: .25 to 25 GPM (.95-95 LPM)
- Body: rigid PVC
- Bonnet: glass reinforced nylon
- Water temperature range: up to 110° F (43° C)
- Listed compliances: UPC
- City of Los Angeles and Canadian Standards Association listing approved
- Centerline distance: 3.750" (952 mm)

Performance pressure loss (PSI)

Flow rate (GPM)	Size 3/4"	1"
5	4.00	4.00
10	5.00	5.00
15	6.50	7.00
20	8.75	9.25
25	12.25	12.75
30	18.50	19.00

Manual Valve Actuator Specifications

Specifications manual valve actuator

- Operating pressure: 20-150 PSI
- Temperature range: up to 150°F (65.5°C)
- Body & Cover: glass reinforced nylon
- Diaphragm: EPDM
- Metal parts and screws:
  - stainless steel 303
  - O-ring: Buna-N

Conversion Charts, Area Equivalents, & Units of Measure

Conversion charts

Flow rate

To Convert	Into	Multiply By
US GPH	Liter/Hour	3.785
US GPM	Liter/Hour	227.1
US GPM	Cubic Feet/Second	0.002228
US GPM	m3/Hour	.2273
Liter/Second	US GPM	15.85
Liter/Second	US GPM	951.002
Liter/Second	m3/Hour	3.6
Liter/Hour	US GPM	0.26417
Liter/Hour	US GPM	0.004403
m3/h	US GPM	4.40288
Cubic Feet/Sec.	m3/h	101.9
m3/h	Cubic Feet/Second	0.00981
Cubic Feet	Gallons	7.4805

Pressure/head

PSI	BAR	0.07031
PSI	Meter	0.7031
PSI	Feet	2.307
Feet	ATM	0.02919
Feet	PSI	0.4335
Feet	BAR	0.03048
Meter	PSI	1.422
Meter	ATM	0.0967
ATM	BAR	1.0336
ATM	Meter	10.336
ATM	BAR	1.01365
ATM	PSI	14.7
BAR	PSI	14.504
BAR	ATM	0.9865
BAR	BAR	1.0197
BAR	PSI	14.223
BAR	Feet	32.81

Weight

Ounce	Gram	28.36
Lbs	Ounce	16
Kg	Lbs	2.20464

Energy

Foot Candle	Lux	10.764

Temperature

Celsius	Fahrenheit	(1.8) + 32
Fahrenheit	Celsius	(F-32): 1.8

Length

To Convert	Into	Multiply By
Inch	Feet	0.08333
Feet	cm	30.48
Feet	Yard	0.3333
Yard	Meter	0.9144
Mile	Meter	1609.344
Mile	Yard	1760
Inch	cm	2.54
mm	Inch	0.03937
Meter	Inch	39.3701
cm	Inch	0.3937
cm	Yard	0.1094
cm	Feet	0.03281
cm	Meter	0.01
cm	Milimeter	10

Area

Square Inch	Square Feet	0.00694
Square Inch	Square cm	6.4516
Square Feet	Square cm	929.03
Square Feet	Square Meter	0.0929
Square Feet	Square Inch	144
Square Yard	Square Meter	0.836
Square Yard	Square Inch	1296
Square Yard	Square Feet	9
Square Mile	Square km	2.59
Square Mile	Acre	640
Acre	Square Feet	43560
Acre	Square Yard	4840
Square cm	Square Inch	0.155
Square Meter	Square Feet	10.7639
Square Meter	Square Yard	1.196
Square km	Square Mile	0.3861
Acre	Hectare	0.404686
Acre	Square Meter	4047

Volume

US Gallon	Cubic Inch	231
US Gallon	Cubic Feet	0.13368
US Gallon	Liter	3.7854
US Gallon	Cubic Meter	0.0037854
US GPM	m3/h	0.22715
Cubic Inch	Cubic cm	16.3871
Cubic Inch	US Gallon	0.004329
Cubic Feet	Cubic Inch	1728
Cubic Feet	Liter	28.32
Cubic Meter	US Gallon	264.172
HP/US	HP/Metric	1.014
HP/Metric	HP/US	0.986
HP/US	Kilowatt	0.7457
Acre - Feet	Square Feet	325,851
Acre - Feet	Cubic feet	43560
Acre - Feet	Meter (Cubed)	1233.5

Area equivalents

1 Acre = 43,560 Sq. Ft = 4840 Yd 2 = 0.4047 Hectares = 160 Sq. Rods = 4047 m 2 = 0.0016 Sq. Mile

1 Acre-Inch = 102.8 m 3 = 27,154 Gal. = 3630 Ft. 3

1 Hectare (HA) = 10,000 m 2 = 100 Acre = 2.471 Acres = 107,639 Sq. Ft.

1 Cubic Foot (Ft. 3) = 1728 In. 3 = 0.037 Yd. 3 = 0.02832 m 3 = 28, 320 cm 3

1 Square Foot (Ft. 2) = 144 In. 2 = 929.03 cm 2 = 0.9290 m 2

1 Square Yard (Yd. 2) = 9 Ft. 2 = 0.836 m 2

1 Cubic Yard (Yd. 3) = 27 Ft. 3 = 0.765 m 3

Flow equivalents

1 GPM = 0.134 Ft. 3/Minute

1 Ft. (Cubed)/min (CFM) = 449 Gal./Hr. (GPH) = 7.481 Gal. Min.

Units of measure

UNITS	Sq. In.	Sq. Ft.	Sq. Yd.	Sq. cm	Sq. m
Sq. In.	1	0.006944	0.0007716	6.452	0.000645
Sq. Ft.	144	1	0.1111	929	0.0929
Sq. Yd.	1296	9	1	8361	0.8361
Sq. cm	0.155	0.001076	0.0001196	1	0.0001
Sq. m	1550	10.76	1.196	10.000	1

Head Loss Charts

Friction loss charts

Polyethylene (Pe) tubing

Size	1/2"		1/2"		1/2"		5/8"		3/4"		1"	
ID	0.520		0.600		0.620		0.720		0.830		1.060	
OD	0.620		0.700		0.710		0.830		0.940		1.200	
Wall Thick	0.050		0.050		0.045		0.055		0.055		0.070	
GPM	Vel. FPS	PSI Loss	Vel. FPS	PSI Loss	Vel. FPS	PSI Loss	Vel. FPS	PSI Loss	Vel. FPS	PSI Loss	Vel. FPS	PSI Loss
0.25	0.38	0.09	0.28	0.04	0.27	0.04	0.02	0.02	0.15	0.01	0.09	0.00
0.50	0.75	0.32	0.57	0.16	0.53	0.14	0.39	0.07	0.30	0.02	0.18	0.01
0.75	1.13	0.68	0.85	0.34	0.80	0.29	0.59	0.14	0.44	0.07	0.27	0.02
1.00	1.51	1.17	1.13	0.58	1.06	0.50	0.79	0.24	0.59	0.12	0.36	0.04
1.25	1.89	1.76	1.42	0.88	1.33	0.75	0.98	0.36	0.74	0.18	0.45	0.06
1.50	2.26	2.47	1.70	1.23	1.59	1.05	1.18	0.51	0.89	0.25	0.54	0.08
1.75	2.64	3.29	1.98	1.64	1.86	1.40	1.38	0.67	1.04	0.24	0.64	0.10
2.00	3.02	4.21	2.27	2.10	2.12	1.79	1.57	0.86	1.18	0.42	0.73	0.13
2.25	3.39	5.23	2.55	2.61	2.39	2.22	1.77	1.07	1.33	0.54	0.82	0.16
2.50	3.77	6.36	2.83	3.17	2.65	2.70	1.97	1.31	1.48	0.65	0.91	0.20
2.75	4.15	7.59	3.12	3.78	2.92	3.22	2.16	1.56	1.63	0.78	1.00	0.24
3.00	4.53	8.91	3.40	4.44	3.18	3.79	2.36	1.83	1.78	0.92	1.06	0.28
3.25	4.90	10.34	3.68	5.15	3.45	4.39	2.56	2.12	1.92	1.06	1.18	0.32
3.50	5.28	11.86	3.91	5.91	3.71	5.04	2.75	2.43	2.07	1.22	1.27	0.37
3.75	5.66	13.48	4.25	6.72	3.98	5.73	2.95	2.77	2.22	1.38	1.36	0.42
4.00	6.04	15.19	4.53	7.57	4.25	6.45	3.15	3.12	2.37	1.56	1.45	0.47
4.50	6.79	18.89	5.10	9.41	4.78	8.03	3.54	3.88	2.67	1.94	1.63	0.59
5.00	7.54	22.96	5.67	11.44	5.31	9.76	3.94	4.71	2.96	2.36	1.82	0.72
5.50	8.30	27.39	6.23	13.65	5.84	11.64	4.33	5.62	3.26	2.91	2.00	0.86
6.00	9.05	32.18	6.80	16.04	6.37	13.67	4.72	6.61	3.55	3.31	2.18	1.01
6.50	9.81	37.32	7.37	18.60	6.90	15.86	5.12	7.66	3.85	3.84	2.36	1.17
7.00	10.56	42.82	7.93	21.34	7.43	18.19	5.51	8.79	4.15	4.40	2.54	1.34
7.50	11.32	48.65	8.50	24.25	7.96	20.67	5.90	9.99	4.44	5.00	2.72	1.52
8.00	12.07	54.83	9.07	27.33	8.49	23.30	6.30	11.25	4.74	5.63	2.90	1.71
8.50	12.83	61.34	9.63	30.57	9.02	26.06	6.69	12.59	5.03	6.30	3.09	1.92
9.00	13.58	68.19	10.20	33.99	9.55	28.98	7.08	14.00	5.55	7.01	3.27	2.13
9.50	14.33	75.37	10.77	37.57	10.08	32.03	7.48	15.47	5.63	7.75	3.45	2.36
10.0	15.09	82.88	11.33	41.31	10.61	35.22	7.87	17.01	5.92	8.52	3.63	2.59
11.0	16.60	98.89	12.47	49.29	11.68	42.02	8.66	20.30	6.51	10.16	3.99	2.09
12.0	18.11	116.2	13.60	57.90	12.74	49.36	9.44	23.85	7.11	11.94	4.36	3.63
13.0	19.62	134.7	14.73	67.16	13.80	57.25	10.23	27.66	7.70	13.85	4.72	4.21
14.0			15.81	77.04	14.86	65.67	11.02	31.72	8.29	15.88	5.08	4.83
15.0			17.00	87.54	15.92	74.63	11.81	36.05	8.88	18.05	5.45	5.49
16.0			18.13	98.65	16.98	84.10	12.59	40.63	9.48	20.34	5.81	6.19
18.0					19.11	104.6	14.17	50.53	10.66	25.30	6.54	7.69
20.0							15.74	61.42	11.84	30.75	7.26	9.35
22.0							17.31	73.27	13.03	36.68	7.99	11.16
24.0							18.89	86.08	14.21	43.10	8.71	13.11
26.0									15.40	49.99	9.44	15.20
28.0									16.58	57.34	10.17	17.44
30.0									17.77	65.15	10.89	19.82
32.0									18.95	73.43	11.62	22.33
34.0											12.35	24.99
36.0											13.07	27.78
38.0											13.80	30.70
40.0											14.52	33.76
42.0											15.25	36.95
44.0											15.98	40.28
46.0											16.70	43.74
48.0											17.43	47.32
50.0											18.16	51.04
55.0											19.97	60.89
60.0												
65.0												
70.0												

NOTE: Shaded areas of chart indicate where velocities exceed 5 ft. per second. Use with caution.

Head Loss Per 100 feet of polyethylene tubing (PSI/100ft.)

Distribution tubing

Size		1/8" Vinyl		1/4" Vinyl		1/8" Poly	
ID		0.125		0.156		0.170	
OD		0.187		0.245		0.250	
Wall Thick		0.031		0.045		0.040	
GPM	GPH	Vel. FPS	PSI Loss	Vel. FPS	PSI Loss	Vel. FPS	PSI Loss
0.05	3.0	1.3	4.77	0.8	1.62	0.7	1.07
0.10	6.0	2.6	17.20	1.6	5.86	1.4	3.86
0.15	9.0	3.9	36.45	2.5	12.4	2.1	8.16
0.20	12.0	5.2	62.06	3.3	21.12	2.8	13.90
0.25	15.0	6.5	93.77	4.1	31.91	3.5	21.01
0.30	18.0	7.8		5.0	44.71	4.2	29.43
0.35	21.0	9.1		5.8	59.47	4.9	39.14
0.40	24.0	10.4		6.7	76.13	5.6	50.11
0.50	30.0	13.1		8.3	115.04	7.0	75.72
0.60	36.0	15.6		10.0	161.18	8.4	106.1
0.70	42.0	18.2		11.7	214.37	9.8	141.11
0.80	48.0	20.8		13.4	274.44	11.2	180.58

Head Loss Per 50 feet of distribution tubing (PSI/50ft.)

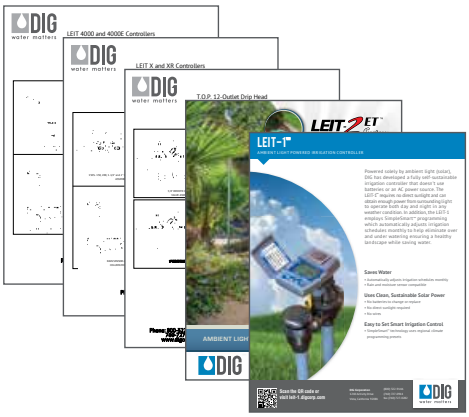
0.05	3.0	1.3	9.54	0.8	3.24	0.7	2.13
0.10	6.0	2.6	34.4	1.6	11.71	1.4	7.71
0.15	9.0	3.9	72.89	2.5	24.80	2.1	16.32
0.20	12.0	5.2	124.11	3.3	42.23	2.8	27.8
0.25	15.0	6.5	187.53	4.1	63.82	3.5	42.01
0.30	18.0	7.8		5.0	89.42	4.2	58.86
0.35	21.0	9.1		5.8	118.93	4.9	78.28
0.40	24.0	10.4		6.7	152.25	5.6	100.22
0.50	30.0	13.1		8.3	230.07	7.0	151.44
0.60	36.0	15.6		10.0	322.36	8.4	212.20
0.70	42.0	18.2		11.7	428.74	9.8	282.22
0.80	48.0	20.8		13.4	548.89	11.2	361.16

Head Loss Per 100 feet of distribution tubing (PSI/100ft.)

Catalogs & Specification Sheets

Specification sheets and catalogs are available to assist in the design and planning process.

These documents are also available on our website in PDF format at www.digcorp.com.



How to specify	
Model	Description
26-405	Specifications • LEIT 4000
26-406	Specifications • LEIT X and XRC
26-407	Specifications • TOP
26-701	Excel dripline with check valve
26-702	Excel dripline
26-703	LEIT-2 ET
41-014	Specifications drawings CD
41-021	Dripline cut sheet
41-030	LEIT-2 ET brochure
41-051	LEIT-1 cut sheet

Warranty

DIG Corporation warrants to its customers who have purchased DIG professional irrigation products from an authorized DIG distributor to be free from original defects in material and workmanship under normal uses from the date of original manufacture for a period of:

- LEIT 1 and LEIT-2 ET systems and accessories: 3 years
- Controllers, solenoids, actuators and accessories: 3 years
- Filters, drip irrigation and accessories: 3 years
- Excel dripline, Excel LFPB, Micro-Line dripline and polyethylene tubing: 5 years
- LEIT 4000, LEIT X, LEIT XRC, LEIT MultiPro and LEIT Master Handset: 4 years

Limited Warranty

DIG Corporation warrants that if any apparent defect arises under normal use and service in the DIG product within the warranty period, DIG at its sole discretion, shall have the option to repair or replace part or all of the original product, free of charge after return of such product at user expense, authorized in writing by DIG Corporation. If a product is replaced, the replacement product will be covered for the remainder of the warranty period dating from the original purchase. This warranty applies only to the DIG Corporation professional irrigation products (excluding the LEIT 4000, LEIT X, LEIT XRC, LEIT MultiPro and LEIT Master Handset), which are installed as specified and used for irrigation purposes. This warranty applies only to products, which have not been altered, modified, damaged, misused nor misapplied. This warranty does not cover products adversely affected by the system into which the products are incorporated, including improperly designed, installed, operated, or maintained systems. This warranty does not apply to blockage of solenoids, valves, dripline, drippers and micro sprinklers due to use of water containing corrosive chemicals, electrolytes, sand, dirt, silt, rust, scale, algae, bacterial slime or other organic contaminants. Tampering with a product (including, but not limited to attempting to disassemble a LEIT controller) will void any warranty the product might otherwise be eligible for. In no event shall DIG's liability exceed the selling price of the product. DIG is not liable for consequential, incidental, indirect or special damages, including but not limited to the labor to inspect, remove or replace products, vegetation loss, loss of energy or water, cost of substitute equipment or services, property damage, loss of use or loss of profits; nor is DIG liable for economic losses, consequential damages or damage to property arising out of installer's negligence or based on strict liability in tort. The user and/or trade customer agrees to the limitations and exclusions of liability of this warranty by purchase or use of DIG products. No representative, agent, distributor or other person has the authority to waive, alter, or add to the printed provisions of this warranty, or to make any representation of warranty not contained here. Some states do not permit the exclusion or limitation of incidental or consequential damages or of implied warranties. Therefore, some of the above exclusions or limitations may not apply to you. This warranty on DIG professional irrigation products is given expressly and in place of all other expressed or implied warranties of merchantability and fitness for a particular purpose, and this warranty is the only warranty on the professional irrigation products made by DIG Corporation.

DIG Corporation LEIT 4000, LEIT X, LEIT XRC, LEIT MultiPro and LEIT Master exclusive warranty details.

Under this warranty, provided that all installation, start-up and operation responsibilities have been properly executed, DIG CORPORATION will repair or replace, at DIG's option, any part found to be defective under normal recommended use within the stated warranty. Repairs and/or replacements at DIG's expense must be authorized through the Return Agreement process (RA) prior to the repair or replacement begins. Repair of damaged units not otherwise within warranty may be refused or done at a reasonable cost or charge at the option provided by DIG CORPORATION

This warranty does not cover damages resulting from misuse, natural disasters (including lightning), neglect, modification, improper installation, or subjection to line pressure in excess of normal irrigation system operation. This warranty shall extend only to the original purchaser of the product. This warranty shall not cover any malfunction of the product if used with high voltage battery such as 24 VAC solenoid testers or any tester that has more than 9 volt DC. The product is intended solely for irrigation purposes. Any use of the product for a purpose other than irrigation voids this warranty.

Repaired or replaced units will be shipped prepaid to the name and address supplied with the unit returned under the warranty, with up to four weeks for diagnostics, repairs and/or shipping time.

In addition DIG extends a limited warranty for an additional one year (1) to cover the costs of replacing components that may be affected by normal wear and tear at the following fees:

LEIT 4000 PVM, Lense Software, Capacitors, Key Pad, Display	$189.99
LEIT X PVM Lense Software, Capacitors, Key Pad, Display	$269.99
LEIT XRC PVM, Lense Software, Capacitors, Key Pad, Display	$289.99

water matters™

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