

<u>MISSION</u>

NETAFIM Leading the way in drip irrigation since 1965.

Our Mission is to create a global paradigm shift in the application and use of water within the Green industry. We will do this by providing technologically advanced and environmentally sound solutions to modern irrigation challenges, and by supporting our customers with education, training and insight into the intelligent use of water.





This year we are pleased to again advance the science of irrigation with an expanded line of precision For more details drip irrigation products. about Netafim landscape and turf irrigation products or to request design or installation information, call our Customer Service department at (888) 638-2346 or visit our web site at www.netafimusa.com.



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INTRODUCTION

Succeed with the Leader in Drip Irrigation!

With more than 39 years of experience in drip irrigation for demanding *agricultural applications*, Netafim has also been pioneering innovations in drip irrigation for the *landscape industry* over the past decade.

This catalog presents our latest in drip irrigation technology for landscape and turf. No matter what your projects require, our comprehensive product line delivers the solutions you need for successful project completion and maintenance. From pressure compensating dripperline, like our revolutionary new Techline[®] CV with built-in check valves, to non-compensated dripperline such as Techlite[®], we've got what you need.

Our Landscape Product Offering

- Subsurface irrigation for turf and shrub bed applications
- On-surface irrigation for shrub bed applications
- · Point source drippers for wide spaced plants and container plantings
- Controllers and valves for automatic irrigation control (residential and commercial applications) including DC controls
- Tools and accessories

Beyond the depth of our product offerings, Netafim is the authority you can trust for unparalleled technical and customer support. **We are here to help you succeed!** We also offer some of the best warranties (see below) in the industry, so you can rest assured knowing your projects will continue to please even your toughest customers for the long haul.

We have included charts in each section that simplify the ordering and specifying process, but should you ever have any questions, just call Customer Service at 888.638.2346 and we will be delighted to assist you.

Warranty Information

Basic Manufacturer's Limited Warranty

Netafim products are warranted to be free from defects in material and workmanship for a period of one (1) year from the date of delivery.

Limited Warranty for Drippers

Drippers are warranted to be free from defects in materials and workmanship for two (2) years from the date of shipment from Netafim.

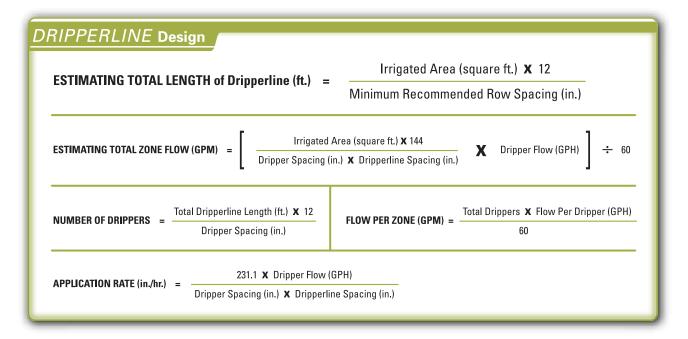
Limited Warranty for Dripperlines

Netafim warrants any polyethylene tubing and dripperlines (Techline CV, Techline[®] and Techlite) sold to be free from environmental stress cracking for a period of seven (7) years from the date of original delivery.

A complete copy of Netafim's warranty is available by contacting Netafim customer service at 888.638.2346.



DRIPPERLINE CALCULATIONS



FIRST-TIME USERS

KIT FOR TECHLINE® DRIPPERLINE



Techline Kit Includes everything you need to tryout a complete system.

TECHLINE KIT Ordering Information												
Dripper Flow (GPH)	Spacing	Length	Model Number									
.9	12"	250'	TLK9-12-250									
.6	12"	250'	TLK6-12-250									
.6	18"	250'	TLK6-18-250									
.4	18"	250'	TLK4-18-250									

Applications

· First-time users - everything you need to get started

Features/Benefits

- Includes all of the basic components
- Helps first-time users design and install a complete system – all components, video and instructions are included
- Excellent choice for contractors or homeowners new to dripperline irrigation technology

Each Kit Contains

- 250' Techline
- 25 TLTEE Tees
- 25 TLELL Elbows
- 10 TL075MA Male Adapters
- 10 TLCOUP Couplings
- 10 TL075FTEE Combination Tees
- 100 TLS6 Staples
- Flush Valve TLFV-1
- Air/Vacuum Relief Valve TLAVRV
- Low Volume Control Zone LVCZ10075-LF includes 1" 24 VAC Valve, 3/4" 140 Mesh Filter and 3/4" PRV075LF45 Pressure Regulator
 - Instructions and "Design, Installation and Maintenance" Video



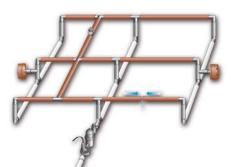
DRIPPERLINE

DESIGN LAYOUTS

For Techline® CV, Techline® and Techlite® Dripperline Systems

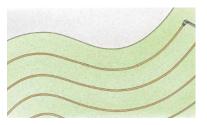
Netafim offers comprehensive design information for Irrigation Specifiers and Contractors, as well as design and installation videos and design details on disk for CAD and PC. For more information, call 888-NETAFIM (888-638-2346) or visit our website at www.netafimusa.com.

SAMPLE DESIGN LAYOUTS



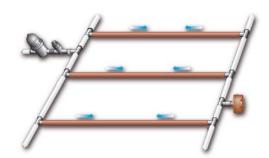
CENTER FEED

For applications in medians or islands, use center feed configuration for long narrow areas.



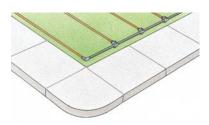
CONTOURS

Dripperlines provide a flexible solution for irrigating around contoured areas and around confined planters or shrubs.



END FEED

End feed configurations are generally used for short or medium length installations.



LATERAL PLACEMENT

Place laterals 2" from any hardscape or 4" from the outside of uncontained landscapes. Place laterals perpendicular to (across) slopes, if any.

TECHLINE[®], TECHLINE[®] CV AND TECHLITE[®] ON-SURFACE LAYOUT

Staples –

- Use 1 TLS6 staple for:
- Every 3' of dripperline in sand, every 4' in loam and every 5' in clay.
- Use 2-staples over each tee, elbow or cross. **Caution** – Landscape fabric staples and other non-stainless steel staples rust quickly and are not recommended.

Line Flushing Valve -

Use one Line Flushing Valve for every 15 GPM of zone flow.

- TLSOV or TLFIG8 may be substituted.
- Position as near as possible to the
- half-way point of the loop.Install in an area where flushing
- about one gallon of water will not cause flooding.

Pressure Regulating Valve (PRV) -

Install *after* the zone valve and filter. With Techline, use: • PRV075LF45V2K from .25 to 4.4 GPM • PRV075HF45V2K from 3.5 to 20 GPM With Techlite, refer to the appropriate *Average Flow Rate* chart to match the PRV with the desired dripper flow rate.

— Filter

- Placed before or after the zone valve. Size the filter based on zone flow: • $3/4^{"}$ filter – up to 17 GPM
- Use 120 or 140 mesh
- Netafim sells a large variety of filters – up to 6,500 GPM – Call Netafim Customer Service for more information.



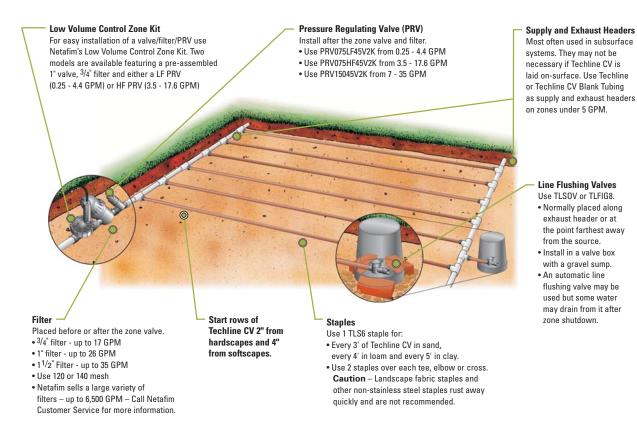
Low Volume Control Zone Kit

For easy installation of a valve/filter/PRV use Netafim's Low Volume Control Zone Kit. Two models are available featuring a pre-assembled 1" valve, ³/4" filter and either a LF PRV (0.25 - 4.4 GPM) or HF PRV (3.5 - 17.6 GPM).

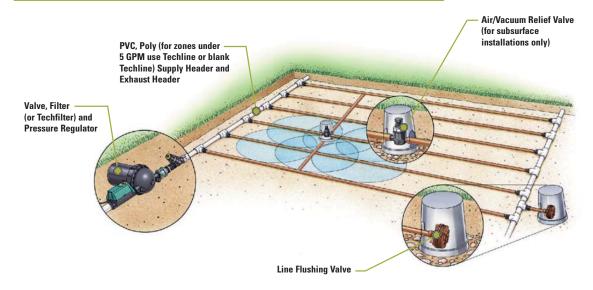


DRIPPERLINE DESIGN LAYOUTS

TECHLINE® CV SUBSURFACE LAYOUT



TECHLINE® SUBSURFACE LAYOUT







Combines the best of Techline and adds a check valve (CV). The most important breakthrough in low-volume irrigation since the introduction of drip.



Applications

- Subsurface or on-surface installations
- Slopes
- Curved, angular or narrow planting areas
- High traffic/high liability areas
- Areas subject to vandalism
- High wind areas
- Turf, shrubs, trees and flowers
- At-grade windows
- Sports turf
- Tennis courts

Specifications

- Broadest choice of dripper flow rates: 0.26, 0.4, 0.6 and 0.9 GPH
- Dripper spacings: 12", 18" and 24"
- Pressure compensation range: 14.7 to 70 psi
 (stainless steel clamps recommended above 50 psi)
- Maximum recommended system pressure: 50 psi
- Minimum pressure required: 14.7 psi
- Tubing diameter: 0.66" OD; 0.56" ID
- Coil length: 100', 250', 1,000'
- Recommended filtration: 120 mesh

Features/Benefits

- Each dripper has a 2 psi check valve all drippers turn on and off at the same time
- Minimizes water loss
- Holds back up to 41/2' of water (elevation change)
- No low drainage, great on slopes
- More precise watering
- Built-in physical root barrier drippers are
 protected from root intrusion without chemical reliance
- Pressure compensation all drippers deliver equal flow
- Unique flow path Turbonet technology allows more control of water flow and less chance for clogging
- Continuous self-flushing dripper design flushes debris as it is detected – throughout operation, not just at the beginning or end of a cycle and ensures uninterrupted dripper operation
- Extremely large filter area provides uninterrupted water flow
- Single hole dripper outlet from tubing
- Better protection against root intrusion
- Allows the dripperline to be used in subsurface applications without chemical protection
- Easy to design in slope and berm applications water does not drain out of low drippers
- No air/vacuum relief valves required installations are faster and less expensive
- Techline compatible
- Techfilter compatible provides a limited lifetime warranty against root intrusion





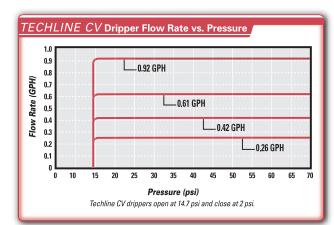


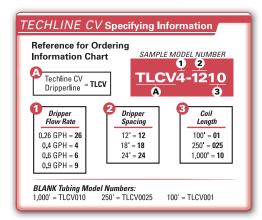
TECHLINE CV General Guidelines

	TURF		SHRU	JB & GROUNDC	OVER
Clay Soil	Loam Soil	Sandy Soil	Clay Soil	Loam Soil	Sandy Soil
0.26 GPH	0.4 GPH	0.6 GPH	0.26 GPH	0.4 GPH	0.6 GPH
18"	12"	12"	18"	18"	12"
18" - 22"	18" - 22"	12" - 16"	18" - 24"	18" - 24"	16" - 20"
	On-surface or	bury evenly throu	ighout the zone to	o a maximum of 6"	
.1915	.4335	.9672	.1914	. 29 21	.7258
79 - 100	35 - 43	16 - 21	79 - 107	52 - 71	21 - 26
	0.26 GPH 18" 18" - 22" .1915	Clay Soil Loam Soil 0.26 GPH 0.4 GPH 18" 12" 18"-22" 18"-22" 0n-surface or .1915 .4335 .4335	Clay Soil Loam Soil Sandy Soil 0.26 GPH 0.4 GPH 0.6 GPH 18" 12" 12" 18"-22" 18"-22" 12"-16" On-surface or bury evenly through 19"-15 .4335 .9672	Clay Soil Loam Soil Sandy Soil Clay Soil 0.26 GPH 0.4 GPH 0.6 GPH 0.26 GPH 18" 12" 12" 18" 18" - 22" 18" - 24" 18" - 24" 18" - 24" On-surface or bury evenly throughout the zone to 19 - 15 .1915 .4335 .9672 .1914	Clay Soil Loam Soil Sandy Soil Clay Soil Loam Soil 0.26 GPH 0.4 GPH 0.6 GPH 0.26 GPH 0.4 GPH 18" 12" 12" 18" 18" 18" - 22" 12" - 16" 18" - 24" 18" - 24" On-surface or bury evenly thrust but the zone to a maximum of 6" .1915 .4335 .9672 .1914 .2921

TECHLI	NE	CV					th ral <i>(1</i>	feet)				
Dripper Spa	cing			1.	2"			1	8"		2	4"
Dripper Flow	v Rate	e (GPH)	0.26	0.4	0.6	0.9	0.26	0.4	0.6	0.9	0.6	0.9
	(psi)	15	127	109	86	65	177	151	120	91	152	116
	sure	25	427	325	256	194	604	459	361	274	458	348
	Inlet Pressure	35	539	409	322	244	763	579	456	346	580	440
	Inle	45	618	469	369	280	877	664	523	397	666	506
												_

TECI	11	LINE	INE CV Flow Per 100 Feet								
Dripp	er 0.26 GPH Dripper 0.4 GPH Dripper 0.6 GPA		0.26 GPH Dripper		0.6 GPH	Dripper	0.9 GPH Dripper				
Spaci	ıg	GPH	GPM	GPH	GPM	GPH	GPM	GPH	GPM		
12"		26.40	0.44	40.00	0.67	61.00	1.02	92,00	1,53		
18"		17.58	0.29	26.67	0.44	41.00	0.68	61.00	1.02		
24"		Not Av	ailable	Not Available		31.00	0 <u>.</u> 51	46.00	0.77		





Flow Rate	Dripper Spacing	Coil Length	Model Number
		1,000'	TLCV26-1210
0.26 GPH	12"	250'	TLCV26-12025
		100'	TLCV26-1201
		1,000'	TLCV26-1810
0.26 GPH	18"	250'	TLCV26-18025
		100'	TLCV26-1801
		1,000'	TLCV4-1210
0.4 GPH	12"	250'	TLDL4-12025
		100'	TLCV4-1201
		1,000'	TLCV4-1810
0.4 GPH	18"	250'	TLCV4-18025
		100'	TLCV4-1801
		1,000'	TLCV6-1210
0.6 GPH	12"	250'	TLCV6-12025
		100'	TLCV6-1201
		1,000'	TLCV6-1810
0.6 GPH	18"	250'	TLCV6-18025
		100'	TLCV6-1801
		1,000'	TLCV6-2410
0.6 GPH	24"	250'	TLCV6-24025
		100'	TLCV6-2401
		1,000'	TLCV9-1210
0 <u>.</u> 9 GPH	12"	250'	TLCV9-12025
		100'	TLCV9-1201
		1,000'	TLCV9-1810
0.9 GPH	18"	250'	TLCV9-18025
		100'	TLCV9-1801
		1,000'	TLCV9-2410
0.9 GPH	24"	250'	TLCV9-24025
		100'	TLCV9-2401
		1,000'	TLCV010
Blank Tubing	17mm	250'	TLCV0025

TECHLINE CV Ordering Information





The world's most advanced continuous self-cleaning, pressure-compensating dripperline.



Applications

- Subsurface or on-surface installations
- Curved, angular or narrow planting areas
- High traffic/high liability areas
- Areas subject to vandalism
- High wind areas
- Turf, shrubs, trees
- Slopes
- At-grade windows
- Sports turf

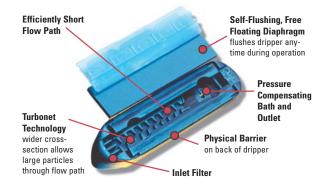
Features/Benefits

- Pressure compensating
- · Efficient, short flow path
- Continuous self-cleaning design resists clogging
- Self-flushing/cleaning, elastomer diaphragm
- Unique design with physical root barrier helps prevent root intrusion
- Self-contained, one-piece construction assures reliability, easy installation
- 12", 18" or 24" dripper spacing and blank tubing available
- Flexible tubing adapts to any planting area shape
- UV resistant
- · Labels on rolls denote flow rate and spacing
- Tubing indelibly marked with flow rate

Specifications

- Dripper flow rates: 0.4, 0.6 or 0.9 GPH
- Pressure compensation range: 7 to 70 psi
 (stainless steel clamps recommended above 50 psi)
- Maximum recommended system pressure: 50 psi
- Tubing diameter: 0.66" OD; 0.56" ID
- Coil Length: 100', 250', 1,000'
- Recommended filtration: 120 mesh
- Bending radius: 7"
- Tubing material: Linear low-density polyethylene

EXPLODED VIEW OF TECHLINE DRIPPER



TECHLINE DRIPPER OPERATION

Techline's Self-Cleaning, Pressure Compensating Dripper is a fully selfcontained unit molded to the interior wall of the dripper tubing itself. Both tubing and dripper housing are manufactured from high-quality synthetic elastomers to withstand chemicals and fertilizers.

As shown at right, Techline

is continuously self-cleaning

during operation, not just at

the beginning and end of a

cycle. The result is depend-

able, clog-free operation,

year after year.

1. 2. 3. 4. 1. Regulating mode

- 2. Initiation of flushing cycle
- 3. Flushing cycle
- 4. Regulating mode



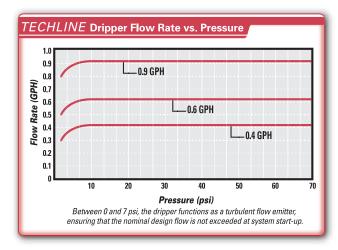
TECHLINE® DRIPPERLINE

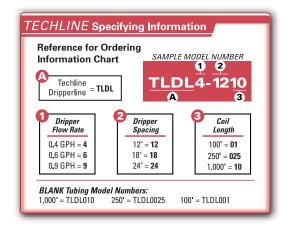
TECHLINE General Guidelines

		TURF		SHRUB & GROUNDCOVER			
	Clay Soil	Loam Soil	Sandy Soil	Clay Soil	Loam Soil	Sandy Soil	
Dripper Flow	0.4 GPH	0.6 GPH	0.9 GPH	0.4 GPH	0.6 GPH	0.9 GPH	
Dripper Interval	18"	12"	12"	18"	18"	12"	
Lateral (Row) Spacing	18" - 22"	18" - 22"	12" - 16"	18" - 24"	18" - 24"	16" - 20"	
Burial Depth		On-surface or b	oury evenly throug	hout the zone to a	maximum of 6"		
Application Rate (inch/hour)	.2923	.6453	1.44 - 1.08	.2921	.4332	1.0887	
Time to Apply 1/4" of Water (minutes)	52 - 65	23 - 28	10 - 14	52 - 71	35 - 47	14 - 17	

TECHLINE Maximum Length of a Single Lateral (feet)										
Dripper Spacing				12"			18"		2	4"
Dripper Flow	Dripper Flow Rate (GPH)		0.4	0.6	0.9	0.4	0.6	0.9	0.6	0.9
	(psi)	15	292	233	175	410	322	247	405	308
	sure	25	397	312	238	558	438	335	553	423
	Inlet Pressure	35	486	365	279	656	514	394	649	497
	Inlex	45	520	407	311	732	574	439	725	555

ECHL	INE F	low Pe	er 100 F	eet		
Dripper	0.4 GPH	Dripper	0.6 GPH	Dripper	0.9 GPH	Dripper
Spacing	GPH	GPM	GPH	GPM	GPH	GPM
12"	40.00	0.67	61.00	1.02	92.00	1.53
18"	26.67	0.44	41.00	0.68	61.00	1.02
24"	Not Av	ailable	31.00	0.51	46.00	0.77





CHLIN	E Ordering	J Informatio	on
Flow Rate	Dripper Spacing	Coil Length	Model Number
0 . 4 GPH	12"	1,000' 250' 100'	TLDL4-1210 TLDL4-12025 TLDL4-1201
0.4 GPH	18"	1,000' 250' 100'	TLDL4-1810 TLDL4-18025 TLDL4-1801
0 . 6 GPH	12"	1,000' 250' 100'	TLDL6 - 1210 TLDL6-12025 TLDL6-1201
0.6 GPH	18"	1,000' 250' 100'	TLDL6-1810 TLDL6-18025 TLDL6-1801
0.6 GPH	24"	1,000' 250' 100'	TLDL6-2410 TLDL6-24025 TLDL6-2401
0 . 9 GPH	12"	1,000' 250' 100'	TLDL9 - 1210 TLDL9-12025 TLDL9 - 1201
0 . 9 GPH	18"	1,000' 250' 100'	TLDL9-1810 TLDL9-18025 TLDL9-1801
0 . 9 GPH	24"	1,000' 250' 100'	TLDL9-2410 TLDL9-24025 TLDL9-2401
Blank Tubi	ng 17mm	1,000' 250' 100'	TLDL010 TLDL0025 TLDL001





Purple-colored dripperline warns of the use of non-potable water.



Applications

• Reclaimed (recycled) water use

Specifications

- Manufactured in purple for non-potable water sources
- Dripper flow rates: 0.4, 0.6 and 0.9 GPH
- Pressure compensation range: 7 to 70 psi
- Maximum recommended system pressure: 50 psi
- Tubing diameter: 0.66" OD, 0.56" ID
- Water passage dimensions: 0.4 GPH: .044" depth, .044" width, .760" length 0.6 GPH: .048" depth, .048" width, .610" length 0.9 GPH: .052" depth, .052" width, .610" length
- Recommended filtration: 120 Mesh
- Uses 17mm fittings and accessories
- Coil length: 1,000'

Features/Benefits

- Utilizes a patented technology based on a unique pressure differential mechanism which provides high emission uniformity and a clog-resistant design
- Provides design flexibility and superior uniformity for irrigation with non-potable/reclaimed water and soil loading
- Patented, continuous self-flushing, free-floating diaphragm allows the dripper to cleanse itself anytime during operation
- Designed with a very large Turbonet flow path, allowing particles to pass freely
- Each emitter is raised .26" from the wall of the dripperline to prevent sediment from entering the dripper when the system is not in operation
- Chemical and wear resistant, maintaining its design flow over many years of use

		TURF		SHRU	B & GROUNDCO	OVER
	Clay Soil	Loam Soil	Sandy Soil	Clay Soil	Loam Soil	Sandy Soil
Dripper Flow	0.4 GPH	0.6 GPH	0.9 GPH	0.4 GPH	0.6 GPH	0.9 GPH
Dripper Interval	24"	12"	12"	18"	18"	12"
Lateral (Row) Spacing	18" - 22"	18" - 22"	12" - 16"	18" - 24"	18" - 24"	16" - 20"
Burial Depth		On-surface or l	bury evenly throug	hout the zone to a	maximum of 6"	
Application Rate (inch/hour)	.2923	.6453	1.44 - 1.08	.2921	.4332	1 . 08 - <u>.</u> 87
Time to Apply 1/4" of Water <i>(minutes)</i>	52 - 65	23 - 28	10 - 14	52 - 71	35 - 47	14 - 17

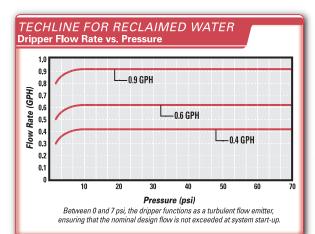


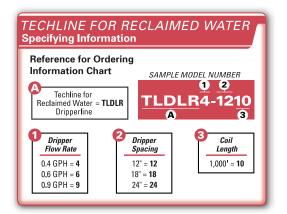
TECHLINE[®] FOR RECLAIMED WATER DRIPPERLINE

ECHLI Iaximum									ER	<u>_</u>
Dripper Spa	cing			12"			18"		2	24"
Dripper Flow Rate (GPH)		0.4	0.6	0.9	0.4	0.6	0.9	0.6	0.9	
	(psi)	15	292	233	175	410	322	247	405	308
	sure	25	397	312	238	558	438	335	553	423
	Inlet Pressure	35	486	365	279	656	514	394	649	497
	Inle	45	520	407	311	732	574	439	725	555

TECHLINE FOR RECLAIMED WATER Flow Per 100 Feet

Dripper	0.4 GPH	Dripper	0.6 GPH	Dripper	0.9 GPH Dripper		
Spacing	GPH	GPM	GPH	GPM	GPH	GPM	
12"	40.00	0.67	61.00	1.02	92.00	1.53	
18"	26.67	0.44	41.00	0.68	61.00	1.02	
24"	Not Available		31.00	0.51	46.00	0.77	





TECHLINE FOR RECLAIMED WATER Ordering Information

Flow Rate	Dripper Spacing	Coil Length	Model Number
	12"	1,000'	TLDLR4-1210
0.4 GPH	18"	1,000'	TLDLR4-1810
	24"	1,000'	TLDLR4-2410
	12"	1,000'	TLDLR6-1210
0.6 GPH	18"	1,000'	TLDLR6-1810
	24"	1,000'	TLDLR6-2410
	12"	1,000'	TLDLR9-1210
0.9 GPH	18"	1,000'	TLDLR9-1810
	24"	1,000'	TLDLR9-2410



ON-SURFACE, NON-PRESSURE COMPENSATING DRIPPERLINE



Applications

- · For on-surface installations only
- Under mulch
- · Large sized irrigation zones
- Shrub beds
- Narrow planting areas

Features/Benefits

- Non-pressure compensating
- · Large, efficient turbulent flow path
- Self-contained, one piece construction assures reliability and easy installation
- Tubing flexibility adapts to any planting shape
- UV resistant
- 12", 18" dripper spacing and blank tubing available
- On-surface installation less labor, more profit
- Internal dripper eliminates labor to attach drippers and micro-tubing
- No clamps required below 50 psi

Specifications

- Dripper flow rates: 0.5 or 1.0 GPH (nominal @ 15 psi)
- Uses 17mm fittings
- Non-pressure compensating range: 12 to 50 psi
- Maximum recommended system pressure: 50 psi
- Recommended filtration: 120 mesh
- Maximum lateral length: (see chart p. 15)
- Tubing diameter: 0.66" O.D., 0.56" I.D.
- Tubing material: Linear low density polyethylene
- Coil Lengths: 100', 250', 1,000'
- Bending radius: 7"



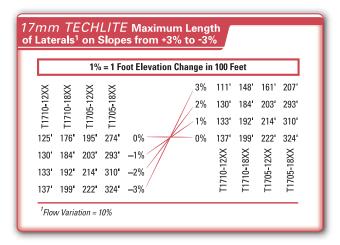
17mm TECHLITE® DRIPPERLINE

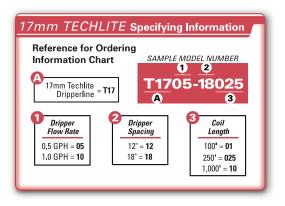
<u>17mm TECHLITE General Guidelines (</u>

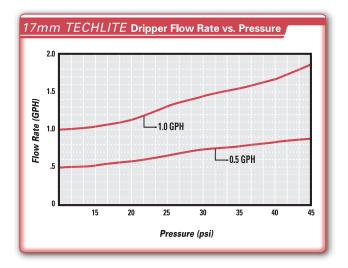
	ON-SURFACE INSTALLATIONS				
	Clay Soil	Loam Soil	Sandy Soil		
Dripper Flow @ 15 psi ***	0.5 GPH	0.5 GPH	1.0 GPH		
Dripper Interval	18"	18"	12"		
Lateral (Row) Spacing	18" - 24"	18" - 24"	16" - 20"		
Application Rate (inch/hour)	.3627	.3627	1.32 - 1.06		
Time to Apply 1/4" of Water (minutes)	42 - 56	42 - 56	11 - 14		

**Maximum spacing recommendations: Following these spacing guidelines, dripper flow selection can be increased if desired by the designer.

***Recommended operating pressure: If operated at higher pressures, adjustments to run times and application rates should be calculated using the correct average flow rate (see Dripper Flow Rate vs. Pressure chart).







Flow Rate	Dripper Spacing	Coil Length	Model Number
0.5 GPH	12"	1,000' 250' 100'	T1705-1210 T1705 - 12025 T1705-1201
0.5 GPH	18"	1,000' 250' 100'	T1705-1810 T1705-18025 T1705-1801
1.0 GPH	12"	1,000' 250' 100'	T1710-1210 T1710-12025 T1710-1201
1.0 GPH	18"	1,000' 250' 100'	T1710-1810 T1710-18025 T1710-1801

ON-SURFACE, NON-PRESSURE COMPENSATING DRIPPERLINE



Applications

- · For on-surface installations only
- Under mulch
- Small sized irrigation zones
- Shrub beds
- Narrow planting areas

Features/Benefits

- Non-pressure compensating
- 6", 12" dripper spacing and blank tubing available
- 60% smaller diameter than 17mm Techlite less noticeable for on-surface installations
- · Large, efficient turbulent flow path dripper
- Self-contained, one piece construction assures reliability and easy installation
- Tubing flexibility adapts to any planting shape
- UV resistant
- On-surface installation less labor, more profit
- No clamps required below 25 psi

Specifications

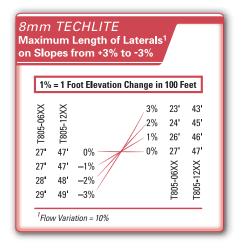
- Dripper flow rate: 0.5 GPH (nominal @ 15 psi)
- Uses 8mm Techlite fittings
- Operating pressure range: 5 to 25 psi
- Maximum recommended system pressure: 25 psi
- Recommended filtration: 120 mesh
- Maximum lateral length: (see chart at right)
- Tubing diameter: 0.26" O.D., 0.24" I.D.
- Tubing material: Linear low density polyethylene
- Coil Length: 100', 1,000'
- Bending radius: 2"

8mm TECHLITE General Guidelines

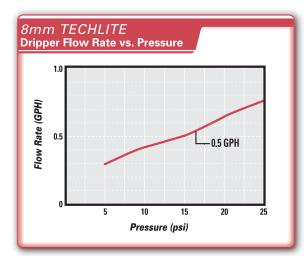
	ON-SU	IRFACE INSTAL	LATIONS
	Clay Soil	Loam Soil	Sandy Soil
Dripper Flow @ 15 psi ***	0.5 GPH	0.5 GPH	0.5 GPH
Dripper Interval	12"	12"	12"
Lateral (Row) Spacing	18" - 24"	18" - 24"	14" - 18"
Application Rate (inch/hour)	.5340	.5340	.6953
Time to Apply 1/4" of Water (minutes)	28 - 38	28 - 38	22 - 28

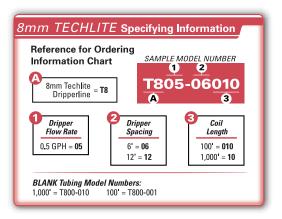
**Maximum spacing recommendations: Following these spacing guidelines, dripper flow selection can be increased if desired by the designer.

***Recommended operating pressure: If operated at higher pressures, adjustments to run times and application rates should be calculated using the correct average flow rate (see Dripper Flow Rate vs. Pressure chart).

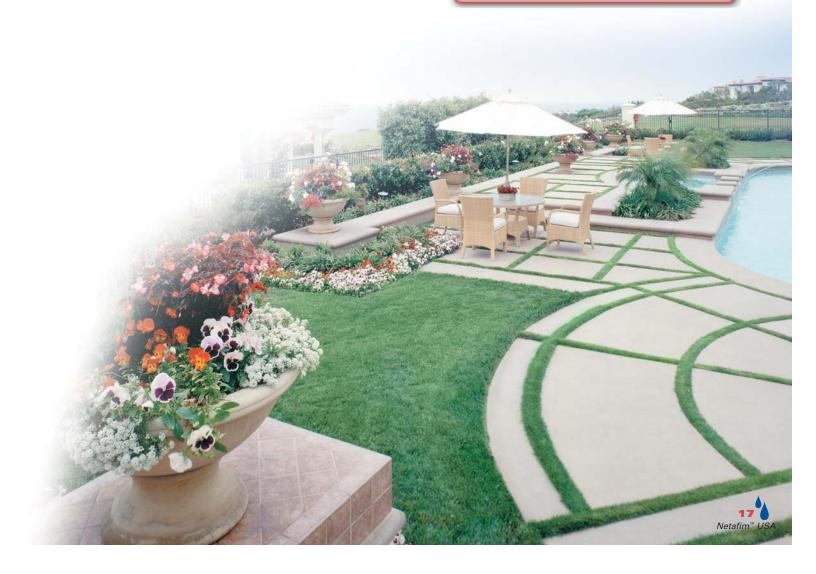








mm TE	nm TECHLITE Ordering Information							
Flow Rate	Dripper Spacing	Coil Length	Model Number					
0.5 GPH	6"	1,000' 100'	T805 - 0610 T805-06010					
0.5 GPH	12"	1,000' 100'	T805-1210 T805 - 12010					





Applications

• Fits Techline® CV, Techline® and Techlite® Dripperlines

Features/Benefits

- Barbed fittings for secure fit and easy installation without glue or tools
- Maximum recommended system
 pressure: 50 psi; 8mm fittings: 25 psi
- UV resistant
- Durable one-piece construction
- Allows for easy on-site inspection of proper fitting installation

8mm TECHLITE FITTINGS



*End Cap can be made from Techline CV, Techline or 17mm Techlite Dripperline by folding 8mm Techlite tubing over twice and sliding 1¹/4" cut section over the end.

TECHLINE CV, TECHLINE and 17mm TECHLITE FITTINGS





Insert Elbow





TLCROS Insert Cross



TLO50MA ¹/2" Male Adapter



TL075MA ³/4" Male Adapter



TL075FTEE Combination Tee Ins x Ins x ³/4" FPT

FPT = Female Pipe Thread MPT = Male Pipe Thread Ins x Ins = Insert by Insert



³/4" MPT "V" 2-Way Insert



TLIAPE-B Insert Adapter for 1" or Larger PE (requires 11mm or 7/16" punch)



TLIAPVC-B Insert Adapter with Grommet for 1¹/2" or Larger PVC (requires TDBIT16.5)



TDBIT16.5 Drill bit for PVC – TLIAPVC



TLFIG8 Figure 8 Line End



TLDPLUG Dripper Plug Ring



Dripper Micro-Tubing Adapter



TLS6 6" Soil Staple (Place approximately every 3' of tubing, plus two on each tee, elbow or cross.)



TLSOV Shut-Off Valve Ins x Ins



TLCV Inline Check Valve 0.9-4.4 GPM Closing Pressure 5.7 psi Opening Pressure 7.1 psi



OPERATION/PRESSURE

For use with Techline® Systems

Applications

• For Techline systems

Features/Benefits

- Provides quick visual confirmation of system operation
- Flag rises to indicate system operation and minimum 10 psi system operation
- Answers the question "Is the system working?"

Specifications

Flag position:
Down (closed) position = 4.5 psi or lower
Halfway position (45°) = 7 psi
Upright (open) position (90°) = 10 psi or greater



10-F-01 OPERATION/PRESSURE INDICATOR STAKE

The set includes: operating/pressure indicator flag, anchoring stake and tubing/adapter. When the zone is on, pressure causes the flag to rise. At a pressure of 10 psi and higher, it is at a 90° angle. At 7 psi, it is at a 45° angle. When the pressure either drops below 4.5 psi or the system is off, the flag is in a down position.



Applications

- Designed for all dripperline, drip and micro-spray zones
- Use on zones between 0.25 and 17.6 GPM

Features/Benefits

- Valve, filter and pressure regulator are completely assembled, saving installation and labor costs
- Compact design allows easier access into valve box
- Wide range of flow
- Disc filter design provides 25 square inches of filtering surface

Specifications

- Regulator: Low Flow: 0.25 to 4.4 GPM High Flow: 3.5 to 17.6 GPM Pressure Rating: 145 psi
- Filter: 140 mesh
 Flow Range: 0 to 17 GPM
- Valve: Low Flow Range: 30 GPM High Flow Range: 0.1 to 30 GPM Pressure Rating: 150 psi

Pre-Assembled Valve, Filter and Pressure Regulator In One Convenient Kit



LOW VOLUME CONTROL ZONE KIT – LOW FLOW LVCZ10075-LF 0.25 - 4.4 GPM



LOW VOLUME CONTROL ZONE KIT – HIGH FLOW LVCZ10075-HF 3.5 - 17.6 GPM





The Guaranteed Root Intrusion Terminator™



Applications

• Recommended for use with all new Techline CV and Techline subsurface installations

Features/Benefits

- Helps eliminate root intrusion
- Replaceable Techfilter cartridge allows for renewal of protection
- Evenly delivers a low concentration of trifluralin to all drippers throughout the system
- Sealed packaging dramatically extends shelf life and adds to filter replacement convenience
- Easy, no-touch installation and replacement of trifluralin disc rings
- Provides ultra-efficient water filtration with performance far superior to screen-type filters
- Renewable warranty, activated when filter cartridges are installed and registered, gives the opportunity for a lifetime of protection
- Recommended filtration: 120 mesh
- Maximum pressure: 140 psi

	DRIPPER FLOW	0.4	GPH	0.6	GPH	0.9	GPH
	Dripper Spacing	12"	18"	12"	18"	12"	18"
MODEL	Flow GPM						
3/4"	Minimum 1	143	213	98	114	65	98
	Maximum 7	1,000	1,489	686	795	458	686
1"	Minimum 3	429	638	294	341	196	294
	Maximum 22	3,143	4,681	2,157	2,500	1,438	2,157
1" Long or	Minimum 8	1,143	1,702	784	909	523	784
1 ½" Long	Maximum 40	5,714	8,511	3,922	4,545	2,614	3,922
2"	Minimum 14	2,000	2,979	1,373	1,591	915	1,373
	Maximum 90	12,857	19,149	8,824	10,227	5,882	8,824

INSURANCE AGAINST ROOT INTRUSION.

Our revolutionary Techfilter protects against roots invading the system. Here's how it works: Trifluralin is incorporated into the replacement disc ring assemblies inside the filter housing. When water passes through the filter, a very low concentration of trifluralin (parts per billion) is transmitted throughout the system. This technology provides very precise and even distribution of trifluralin



and even distribution of trifluralin throughout the piping network and effectively inhibits root growth into the dripper outlets.

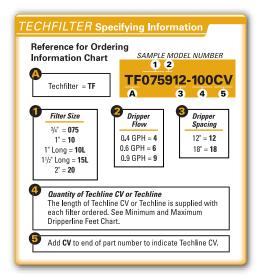
Exclusive Netafim USA Techfilter Limited Lifetime Extended Warranty.



Every Netafim Techfilter carries a 2-Year-to-Lifetime Warranty. Proper use and timely replacement of the cartridge will keep the Lifetime Extended Warranty in force.

Replaceable Techfilter disc cartridges come in conveniently sealed packages which have two benefits: extended shelf life and simple, clean replacement of the complete cartridge without having to touch the rings.

NOTE: Techfilter with Techline CV or Techline Dripperline is sold together for use on a new installation. Techfilter is sold as part of a system and cannot be sold without the proper amount of dripperline.



TECHFILTER[®]



3/4"





1" LONG



11/2" LONG



	Ordering Info	riiid	tion												
Techfillter Model # for	Techfilter Model # for			Filter	Size				/ & Tec low (G		Drip Spa			ie CV & T Ils Suppl	
Techline CV	Techline	3/4"	1"	1" Long	11/2" Long	2"	.26	0.4	0.6	0,9	12"	18"	100'	250'	1,000 ^ª
TF075912-100CV	TF075912-100	Х								Х	Х		1		
TF075912-1000CV	TF075912-1000	Х								Х	Х				1
TF075918-100CV	TF075918-100	Х								Х		Х	1		
TF075918-1000CV TF075612-100CV	TF075918-1000 TF075612-100	X X							Х	Х	Х	Х	1		1
TF075612-100CV	TF075612-100	X							X		X				1
TF075618-200CV	TF075618-200	X							X		~	Х	2		
TF075618-1000CV	TF075618-1000	Х							Х			Х			1
TF075412-100CV	TF075412-100	Х						Х			Х		1		
TF075412-1000CV	TF075412-1000	Х						Х			Х				1
TF075418-200CV TF075418-1000CV	TF075418-200 TF075418-1000	X X						X X				X X	2		1
TF0752612-100CV	* * * * * *	X					х	~			х	~	1		1
TF0752612-1000CV	* * * * * *	X					X				X				1
TF0752618-200CV	* * * * * *	Х					Х					Х	2		
TF0752618-1000CV	* * * * * *	Х					Х					Х			1
TF10912-200CV	TF10912-200		Х							Х	Х		2		
TF10912-1000CV	TF10912-1000		Х							X	Х	.,			1
TF10918-300CV	TF10918-300		X X							X X		X	3		1
TF10918-1000CV TF10612-300CV	TF10918-1000 TF10612-300		X X						Х	X	Х	Х	3		1
TF10612-300CV	TF10612-300		X						X		X		3		1
TF10618-350CV	TF10618-350		X						X			Х	1	1	
TF10618-1000CV	TF10618-1000		X						X			X			1
TF10412-400CV	TF10412-400		Х					Х			Х		4		
TF10412-1000CV	TF10412-1000		Х					Х			Х				1
TF10418-600CV	TF10418-600		Х					Х				Х	1	2	
TF10418-1000CV	TF10418-1000		Х				X	Х			X	Х			1
TF102612-400CV TF102612-1000CV	* * * * * * *		X X				X X				X X		4		1
TF102618-600CV	* * * * * * *		X				X				^	Х	1	2	1
TF102618-1000CV	* * * * * *		X				X					X		-	1
* * * * * * *	TF10L912-500			Х						Х	Х			2	
* * * * * * *	TF10L912-1000			Х						Х	Х				1
* * * * * * *	TF10L918-800			Х						Х		Х	3	2	
TF10L918-1000CV	TF10L918-1000			Х						Х		Х			1
TF10L612-800CV	TF10L612-800			Х			_		X		X		3	2	
TF10L612-1000CV TF10L618-900CV	TF10L612-1000 TF10L618-900			X X					X X		Х	Х	4	2	1
TF10L618-1000CV	TF10L618-1000			X					X			X	4	2	1
TF10L412-1000CV	TF10L412-1000			X				Х	7.		Х				1
TF10L412-1100CV	TF10L412-1100			Х				Х			Х		1		1
TF10L418-1000CV	TF10L418-1000			Х				Х				Х			1
TF10L418-1700CV	TF10L418-1700			Х				Х				Х	2	2	1
TF10L2612-1000CV	* * * * * *			Х			X				Х	V			1
TF10L2618-1000CV	* * * * * *			Х	N/		Х			X	X	Х		0	1
TF15L912-500CV	TF15L912-500 TF15L912-1000				X X					X X	X X			2	1
TF15L912-1000CV TF15L918-800CV	TF15L912-1000				X					X	~	Х	3	2	1
TF15L918-1000CV	TF15L918-1000				X					X		X	v	-	1
TF15L612-800CV	TF15L612-800				X				Х		Х		3	2	
TF15L612-1000CV	TF15L612-1000				Х				Х		Х				1
TF15L618-900CV	TF15L618-900				Х				Х			Х	4	2	
TF15L618-1000CV	TF15L618-1000				X			v	Х			Х			1
TF15L412-1100CV TF15L418-1000CV	TF15L412-1100 TF15L418-1000				X X			X X			Х	х	1		1
TF15L418-1000CV	TF15L418-1000 TF15L418-1700				X			X				X	2	2	1
TF15L418-1000CV	TF15L418-1000				X			X				X	2	2	1
TF15L2612-1000CV	* * * * * *				X		Х				Х				1
TF15L2618-1000CV	* * * * * *				Х		Х					Х			1
TF20912-1000CV	TF20912-1000					Х				Х	Х				1
TF20918-1000CV	TF20918-1000					Х				Х		Х			1
TF20918-1400CV	TF20918-1400					Х				Х		Х	4		1
TF20612-1000CV	TF20612-1000					X			X		X				1
TF20612-1400CV	TF20612-1400					X			X		Х	v	4		1
TF20618-1000CV TF20618-1600CV	TF20618-1000 TF20618-1600					X X			X X			X X	1	2	1
TF20412-1000CV	TF20618-1600					X		Х	~		х	Λ		2	1
TF20412-2000CV	TF20412-2000					X		X			X				2
TF20418-1000CV	TF20418-1000					X		X				Х			- 1
TF20418-3000CV	TF20418-3000					Х		Х				Х			3

21 Netafim[™] USA

WITH REPLACEMENT FILTER RINGS

Applications

- Residential
- Commercial
- Municipal
- Institutional

Features/Benefits

- · Highly effective multiple disc filter design
- Simple, easy and thorough filter cleaning
- Low friction loss
- ³/4" model available with or without manual shut-off valve
- 100% thermoplastic discs provide extremely high corrosion resistance
- Color-coded replacement filter rings available
- Extra large filtration capacity means less frequent cleaning
- Maximum pressure: 140 psi





1¹/2" LONG



11/2"



2"

³/4" WITH SHUT-OFF VALVE



3/4"





DF SERIES DISC FILTER RINGS 80 Mesh (Yellow), 120 Mesh (Red), 140 Mesh (Black), 200 Mesh (Green)



2" COMPACT DISC-KLEEN AUTOMATIC FILTER

With a built-in controller (automatically senses when the filter needs to be cleaned). Can be mounted anywhere and requires no electrical hook-up. Standard Model: 30-80 GPM Low Flow Model: 20-40 GPM

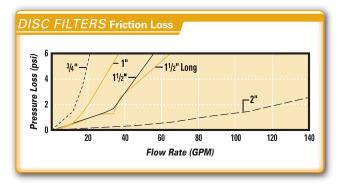
2" COMPACT STAND-ALONE DISC FILTER Maximum Flow Rates

	STANDAR	RD MODEL	LOW FLO	W MODEL	
Water Type	Maximum	Flow (GPM)	Maximum Flow (GPM)		
	120 MESH	140 MESH	120 MESH	140 MESH	
Potable and Clean Well Water	100	90	60	50	
Reservoir Water	80	65	55	30	
River and Canal Water	60	50	30	20	
Minimum Backflush Flow at 40 psi	35	35	20	20	



511. OI	Filter Volume	Filtration					F	ow Rat	e (GPM)					
Filter Size	(cu. in.)	Area (sq. in.)	4.40	8.80	13.00	17.00	22.00	26.00	31.00	35.00	44.00	66.00	88.00	110.00	132.0
3/4"	5.8	24.8	0.40	1.46	3.40	5.62									
1"	26.8	48.9	1,14	0.54	1.34	2.10	3.24								
1 1/2"	26.8	49.0					1.10	1.30	1.70	2.30					
11/2" Long	36.1	77.8					1.10	1.20	1.20	2.50	4.20				
2"	75.0	148.0									0.30	0.63	1.03	1.47	2.13

MICRON Conversion
80 Mesh = 200 Microns
120 Mesh = 130 Microns
140 Mesh = 115 Microns
200 Mesh = 75 Microns



Disc Filter Model Number	Filter Rings Model Numbe	Filter Size	Mesh	Mesh Color
DF075-080	DFR075080	3/4"	80	Yellow
DF075-120	DFR075120	3/4"	120	Red
DF075-140	DFR075140	3/4"	140	Black
DFV075-080	DFR075080	3/4" with Shut Off Valve	80	Yellow
DFV075-120	DFR075120	3/4" with Shut Off Valve	120	Red
DFV075-140	DFR075140	3/4" with Shut Off Valve	140	Black
DF100-080	DFR150080	1"	80	Yellow
DF100-120	DFR150120	1"	120	Red
DF100-140	DFR150140	1"	140	Black
DF100-200	DFR150200	1"	200	Green
DF150-080	DFR150080	11/2"	80	Yellow
DF150-120	DFR150120	11/2"	120	Red
DF150-140	DFR150140	11/2"	140	Black
DF150-200	DFR150200	11/2"	200	Green
DF150S-080	DFR150L080	11/2" Long	80	Yellow
DF150S-120	DFR150L120	11/2" Long	120	Red
DF150S-140	DFR150L140	11/2" Long	140	Black
DF150S-200	DFR150L200	11/2" Long	200	Green
DF200-080	DFR200080	2"	80	Yellow
DF200-120	DFR200120	2"	120	Red
DF200-140	DFR200140	2"	140	Black
DF200-200	DFR200200	2"	200	Green

Compact Disc Filter Model Number	Mesh	Mesh Color	GPM
26ASK2A1T-120	120	Red	30-80
26ASK2A1T-140	140	Black	30-80
26ASK2A1TLF-120	120	Red	20-40
26ASK2A1TLF-140	140	Black	20-40



CONTROLLERS

6, 9 and 12 Stations, AC and DC Models

Applications

- Residential
- Commercial
- Miracle DC: Recommended for areas without available power and for regions prone to lightning strikes or power outages

Features/Benefits

- Miracle DC: May be either connected to an external AC transformer or battery operated – see Battery Power Consumption chart for battery life
- 3 independent programs
- 4 start times
- Internal circuit board protection eliminates need for fuses or circuit breakers (AC only)
- Battery life (AC only) provides up to 100 hours
 protection
- Automatic stop at "off" position when scrolling for easier programming
- Self-diagnostic testing of individual stations to detect, skip over and notify you of short circuits
- Station run times: 1 minute to 9 hours, 59 minutes – in 1 minute increments
- 7 day schedule, calendar or interval
- 10%-200% water budgeting
- Rain/Soil Moisture Sensor input
- Up to 99 day rain delay
- Manual start override
- Miracle DC: Power conserving "sleep mode": 5 minutes from user's last touch, the display will turn off. Touching any button or turning the dial will reactivate the display
- Miracle DC: Indoor cabinet, standard

Specifications

- Miracle AC Transformer input: 120 Volt, 12 VAC, 60 Hz
- Miracle DC Internal Battery for operation: 9V Alkaline or 9V Lithium
- Miracle DC: Optional external battery
- Miracle DC: Utilize Netafim Aquanet DC Valves (see page 26) or any other 12 VDC latching solenoid valve
- Rain shut off must be "normally open"



MIRACLE AC

25-MIRPED



MIRACLE DC Comes standard with indoor cabinet



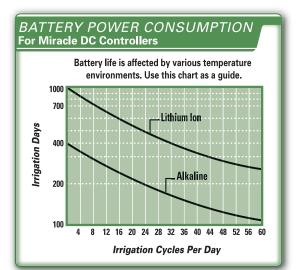
MIRACLE DC CONTROLLER on outdoor pedestal. Lockable pedestal cover shown at left.



25-MRP-PROF-CAB Professional indoor or outdoor cabinet shown with Miracle installed



Motorola Miracle Controllers are manufactured exclusively for Netafim by Motorola, meeting the same stringent standards of quality and reliability as Motorola cellular phones, pager units and highly sophisticated emergency equipment.



MIRACLE CONTROLLER Ordering Information

Model Number	Description
25-MRAAC-06	6 Station, AC, Indoor with Transformer
25-MRAAC-09	9 Station, AC, Indoor with Transformer
25-MRAAC-12	12 Station, AC, Indoor with Transformer
25-MR-DC-06	6 Station, DC, Sheltered Location/Battery
25-MR-DC-09	9 Station, DC, Sheltered Location/Battery
25-MR-DC-12	12 Station, DC, Sheltered Location/Battery
25-MIRPED	Miracle Outdoor Pedestal with Lockable Cover
25-MRP-PROF-CAB	Outdoor Locking Wall Mount Controller Cabinet



AQUA PRO

CONTROLLER

Single Station Battery Powered Controller for Use When an Extra Controller and Valve are Needed

Applications

- For applications where power is unavailable
- Single station systems or wherever an extra valve is needed
- Where an extra controller station is needed

Features/Benefits

- 9 volt battery powered controller and valve serves any application where power is not available or affordable
- Four program modes provide programming flexibility to meet almost any irrigation schedule:
- One run time, one start time everyday
- One run time, one start time, up to 7 active days
- One run time, 3 start times, up to 7 active days
- Manual operation
- Easy access, four button programming
- Waterproof and vandal proof mounts inside valve box for added protection
- Remote location operation up to 300' from valve using #16 wire
- Mounting options include bracket for 3/4" PVC pipe and wall adapter

Specifications

- Waterproof: IP67
- Five operating modes:
- once per day
- once per day with selected days in the week
- three times per day with selected days in a week
- manual operation
- off
- Minimum running time: 1 minute
- Maximum running time: 11 hours, 59 minutes
- 9 volt battery (not included)
- 2 1.5 volt LR1130 batteries (included)
- Materials:
- body: ABS
- display window: Satoprene
- Electronic:
- voltage output: 13VDC
- pulse width: 200 m/sec.
- capacity: 400µF
- Operating temperature: 32° F to 122° F
- Storage temperature: 14° F to 140° F



SINGLE STATION CONTROLLER Operates DC Solenoid Valves

AQUA PRO CONTROLLER

Single Station Controller used with 1" or ³/4" Aquanet Valve – see page 26 for more information about Aquanet Valves.

AQUA PRO CONTROLLER Ordering Information

Model Number	Description
AP075	Aqua Pro Controller with 3/4" Aquanet Valve
AP100	Aqua Pro Controller with 1" Aquanet Valve
AP-CONTROLLER	Aqua Pro Controller





Applications

- Recommended for use with the Netafim Miracle DC Controller and Aqua Pro Controller
- · Any dirty or clean water application

Features/Benefits

- Industry's first motorized DC Valve
- 3/4", 1", 11/2" and 2" sizes
- Clog-proof non-continuous metering 3-way operation assures trouble-free operation in all water conditions
- Internal bleed keeps valve box dry
- Unique design glass reinforced nylon body
- Metering orifices are 2mm, making the valve extremely debris-resistant
- · Standard with flow control
- 3-position control dial allows automatic (controller activation), manual or closed operation

Specifications

- Female threaded connection
- Operates with any 9 to 14 volt DC Pulse Signal (latching type solenoid)
- Operating pressure range: 3 to 150 psi
- Flow range:
 0.1 to 28 GPM (³/₄" and 1")
 1 to 175 GPM (1¹/₂" and 2")
- Black wire = Common
- Red wire = Power
- Controller to Aquanet wire run lengths:
- 12 gauge: 3,150' 18 gauge: 780'
- 14 gauge: 1,950' 20 gauge: 480'
- 16 gauge: 1,230'



AQUANET DC VALVES



AQUANET PRESSURE REGULATOR KIT

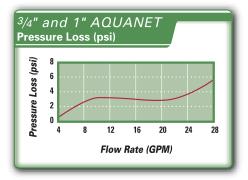
(DC models only) The easy to install kit can be added to any $1^{1/2}$ " or 2" Aquanet DC Valve. An easy to set dial allows pressure to be set without gauges or tools.

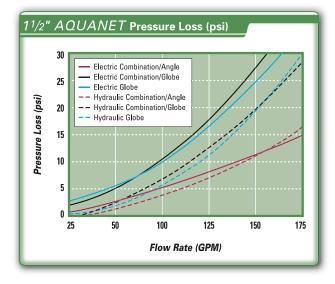
AQUANET VALVES Ordering Information

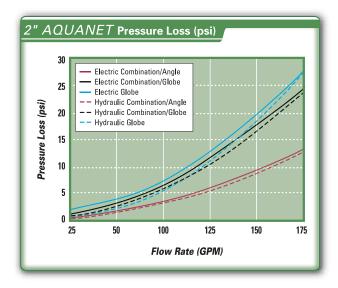
12 VDC Models	Description
26-EV-DCN-07T	3/4" Globe Valve with Flow Control
26-EV-DCN-10T	1" Globe Valve with Flow Control
26-EV-DCN15TGN	11/2" Globe Valve with Flow Control
26-EV-DCN15TAN	11/2" Globe/Angle Valve with Flow Control
26-EV-DCN20TGN	2" Globe Valve with Flow Control
26-EV-DCN20TAN	2" Globe/Angle Valve with Flow Control
26-EVPC-PR	Pressure Regulator Kit for 11/2" and 2" Valves
24 VAC Models	Description
26-EV-ACN07T	3/4" Globe Valve with Flow Control
26-EV-ACN10T	1" Globe Valve with Flow Control
26-EV-ACN15TGN	1½" Globe Valve with Flow Control
26-EV-ACN15TAN	1½" Globe/Angle Valve with Flow Control
26-EV-ACN20TGN	2" Globe Valve with Flow Control
26-EV-ACN20TAN	2" Globe/Angle Valve with Flow Control
	•
Hydraulic Models	Description
26-HVN15TG	1½" Globe Valve with Flow Control
26-HVN15TA	1½" Globe/Angle Valve with Flow Control
26-HVN20TG	2" Globe Valve with Flow Control



AQUANET[®] DIRTY WATER VALVES











Structural Simplicity and Superior Hydraulic Performance

Applications

• Residential, light commercial, commercial, municipal, golf

Cast Iron and Bronze Valves Features/Benefits

- Cast iron protective polyester coating is resistant to corrosive elements
- Bronze designed to resist cavitation where extreme flow velocities exist
- Unique design allows a straight flow pattern with low friction loss
- Equipped with direct sealing diaphragm
- Maximum operating pressure: 230 psi

Electric Throttling Valves Features/Benefits

- Durable glass reinforced nylon construction with flow control
- No moving parts in the flow path or control loop no maintenance
- Standard with built-in solenoid for ease of operation and reliability
- · Simple to install vertically or horizontally

Electric Throttling Valves Specifications

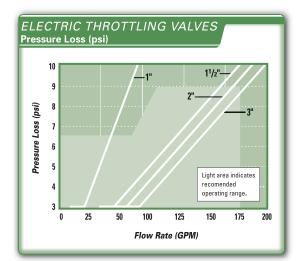
- Available sizes: 1", 1¹/₂", 2" and 3"
- Maximum operating pressure: 145 psi
- Maximum water temperature: 140° F
- Female threaded connection
- Electrical specifications: Standard – 24 VAC, 60 Hz Inrush current – 29mA Holding current – 14mA



CAST IRON AND BRONZE VALVES



ELECTRIC THROTTLING VALVES



ALVE Orderi	ing Information		
Model Number	Description	Size	Maximum Flow
61ET1PBI 61ET1.5PBI2 61ET2PBI2 61ET323PBI2	Threaded Plastic Valve with 2-Way Solenoid	1" 11/2" 2" 3"	50 GPM 125 GPM 175 GPM 225 GPM
61EL1B - LP 61EL1 - 5B-LP 61EL2B-LP 61EL323B-LP	Threaded Bronze Globe Valve with 3-Way Solenoid	1" 1'/2" 2" 3"	50 GPM 90 GPM 175 GPM 225 GPM
61EL2AN-LP 61EL3ITAN	Threaded Angle Valve with 3-Way Solenoid	2" 3"	175 GPM 350 GPM
61EL3IF-LP 61EL4IF-LP 61EL6IF-LP	Flanged Cast Iron Globe Valve with 3-Way Solenoid	3" 4" 6"	390 GPM 600 GPM 1,300 GPM



Applications

• All irrigation systems

Features/Benefits

- · Provides constant outlet pressure
- Sealed regulating unit for each pressure option (except 3/4" low flow)
- · Easy inline assembly
- Female inlet and outlet on low flow model
- Female inlet, male outlet in 3/4" high flow model
- Built-in indicator on 3/4" high flow and larger models shows when proper outlet pressure is achieved

Specifications

- 3/4" low flow model: 0.25 to 4.4 GPM
- 3/4" high flow model: 3.5 to 17.6 GPM
- 11/2" model: 7 to 35 GPM
- Maximum pressure: 145 psi
- Other models available up to 500 GPM





HIGH FLOW

EXPLODED VIEW OF ³/4" HIGH FLOW VALVE with Replaceable Pressure Regulating Unit





11/2"



Model Number	Description	psi	GPM
PRV075LF15V2K PRV075LF20V2K PRV075LF25V2K PRV075LF35V2K PRV075LF42V2K	Low Flow – Inline ¾" FPT Inlet x FPT Outlet	15 psi 20 psi 25 psi 35 psi 42 psi	0.25 - 4.4
PRV075HF15V2K PRV075HF20V2K PRV075HF25V2K PRV075HF35V2K PRV075HF45V2K	High Flow – ¾ FPT Inlet x MPT Outlet	15 psi 20 psi 25 psi 35 psi 45 psi	3.5 - 17.6
PRV15015V2K PRV15020V2K PRV15025V2K PRV15035V2K PRV15045V2K	1½" MPT x MPT	15 psi 20 psi 25 psi 35 psi 45 psi	7 - 35
PRVU15V2K PRVU20V2K PRVU25V2K PRVU35V2K PRVU35V2K PRVU45V2K	Replacement Pressure Regulating Unit	15 psi 20 psi 25 psi 35 psi 45 psi	

DECOURT DECUL ATOR VALVE



FPT = Female Pipe Thread MPT = Male Pipe Thread



VALVES FOR TECHLINE® AND 17mm TECHLITE® SYSTEMS

Optimize System Performance

Applications

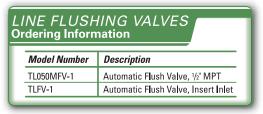
- Drip irrigation systems
- Clean or dirty water

Features/Benefits

- Flushing reduces sediment build-up
- Automatic cleaning operation at start of each irrigation cycle
- Unique design reacts to flow, not pressure, allowing operation even at full line pressure
- Can be disassembled to allow for winterization "blowout"

Specifications

- Flushing water volume: approx. 1 gallon per cycle
- Maximum zone flow rate per Flush Valve: 15 GPM
- Minimum pressure required: 1.5 psi
- Maximum pressure: 57 psi



MPT = Male Pipe Thread



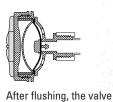
TL050MFV-1

TLFV-1

Diaphragm in open position allows flushing.



As irrigation starts, valve flushes out dirt particles in the open position.



closes. Normal system operation begins.



RELIEF VALVE

Eliminates Negative Pressure in Subsurface Installations

Applications

• Install in subsurface Techline zones

Features/Benefits

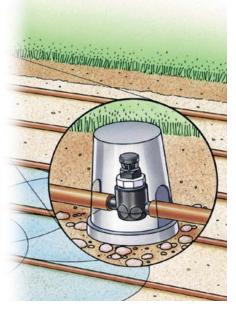
- Eliminates vacuum that could draw contaminants into the piping system
- Non-corrosive

Specifications

- Maximum pressure: 140 psi
- 1/2" male threaded connection
- Not required for on-surface installations







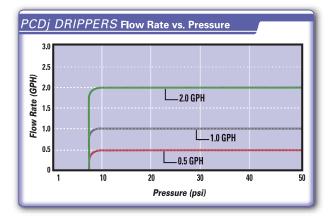
MPT = Male Pipe Thread





Pressure Compensating Continuous Self-Flushing Drippers with Check Valve (Shown below slightly larger than actual size)





Applications

- Can be used with blank polyethylene tubing, Techline[®] CV, Techline[®], Techlite[®], other PC and non-PC dripperlines
- Can be used in piping networks with wide pressure variations
- · Can be installed on-surface or subsurface
- Wide-spaced plantings
- Trees
- Hanging baskets
- Flower boxes
- · Planters or pots

Features/Benefits

- Unique Turbonet design regulates flow and provides continuous self-cleaning action during operation
- Delivers the same flow from 7 to 50 psi
- Can be used with Techline CV dripperline without causing dripperline drainage
- 1.5 psi internal check valve helps prevent drainage and holds back up to a 3¹/₂' column of water
- Anti-siphon operation prevents contaminants from being drawn into dripper
- Dripper body is color-coded denoting flow
- Small profile

Specifications

- Flow rates: 0.5, 1.0 or 2.0 GPH
- Pressure compensation range: 7 to 50 psi
- Maximum pressure: 50 psi
- Barb inlet x .160" barb outlet
- Uses .160" x .220" micro-tubing (Model EDTUBE)
- Recommended filtration: 120 mesh

FLOW (GPH)	VELOCITY (FPS)	psi LOSS (per 100 feet)
0.50	0.13	0.04
1.00	0.27	0.16
2.00	0.53	0,58
3.00	0.80	1.24
4.00	1.06	2,11
5.00	1.33	3.19
6.00	1.59	4,46
7.00	1.86	5.94
8.00	2,13	7,61

PCDj DRIPPERS Ordering Information

Model Number	Description	Color	Bag Quantity
PCDj05-25	0.5 GPH Barb Inlet x .160" Barb Outlet	Red	25
PCDj05-100	0.5 GPH Barb Inlet x .160" Barb Outlet	Red	100
PCDj05-250	0.5 GPH Barb Inlet x .160" Barb Outlet	Red	250
PCDj05 - 1000	0.5 GPH Barb Inlet x .160" Barb Outlet	Red	1,000
PCDj10-25	1.0 GPH Barb Inlet x .160" Barb Outlet	Gray	25
PCDj10-100	1.0 GPH Barb Inlet x .160" Barb Outlet	Gray	100
PCDj10-250	1.0 GPH Barb Inlet x .160" Barb Outlet	Gray	250
PCDj10-1000	1.0 GPH Barb Inlet x .160" Barb Outlet	Gray	1,000
PCDj20-25	2.0 GPH Barb Inlet x .160" Barb Outlet	Green	25
PCDj20-100	2.0 GPH Barb Inlet x .160" Barb Outlet	Green	100
PCDj20-250	2.0 GPH Barb Inlet x .160" Barb Outlet	Green	250
PCDj20-1000	2.0 GPH Barb Inlet x .160" Barb Outlet	Green	1,000





Pressure Compensating Continuous Self-Cleaning Drippers with Check Valve

Applications

- Can be used in piping networks with a wide range of pressure variations
- Can be used either on-surface or subsurface
- Wide-spaced plantings
- Planters or pots

Features/Benefits

- Unique design regulates flow and provides self-cleaning action
- 5.0 psi internal check valve prevents low pressure drainage
- Anti-siphon operation prevents contaminants from being drawn into dripper
- · Color-coding denotes flow

Specifications

- Flow rates: 0.5, 1.0 or 2.0 GPH: 6.0 GPH on WPCT
- Pressure compensation range: 7 to 60 psi
- Uses .160" x .220" micro-tubing (Model EDTUBE)
- Maximum pressure: 60 psi
- Recommended filtration: 120 mesh

Model Number	Description	Color	Bag Quantity
WPC5	0.5 GPH Barb Inlet x Nipple Outlet	Red	25
WPC5-250	0.5 GPH Barb Inlet x Nipple Outlet	Red	250
WPC10	1.0 GPH Barb Inlet x Nipple Outlet	Black	25
WPC10-250	1.0 GPH Barb Inlet x Nipple Outlet	Black	250
WPC20	2.0 GPH Barb Inlet x Nipple Outlet	Green	25
WPC20-250	2.0 GPH Barb Inlet x Nipple Outlet	Green	250
PC5	0.5 GPH Barb Inlet	Red	25
PC5-250	0.5 GPH Barb Inlet	Red	250
PC10	1.0 GPH Barb Inlet	Black	25
PC10-250	1.0 GPH Barb Inlet	Black	250
PC20	2.0 GPH Barb Inlet	Green	25
PC20-250	2.0 GPH Barb Inlet	Green	250
WPCT5	0.5 GPH 1/2" FPT Inlet x Nipple Outlet	Red	25
WPCT10	1.0 GPH ½" FPT Inlet x Nipple Outlet	Black	25
WPCT20	2.0 GPH 1/2" FPT Inlet x Nipple Outlet	Green	25
WPCT60	6.0 GPH 1/2" FPT Inlet x Nipple Outlet	Orange	25
WPBC	Bug Cap for Nipple Outlet		25
WPBA	Barbed Adapter for Nipple Outlet		25

FPT = Female Pipe Thread







WPCT

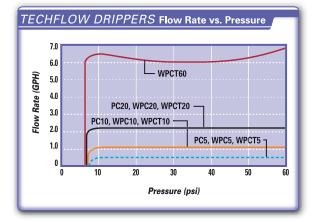
WPBC BUG CAP

WPBA BARBED ADAPTER

PC DRIPPERS



WPC DRIPPERS







Non-Pressure Compensating Drippers

Applications

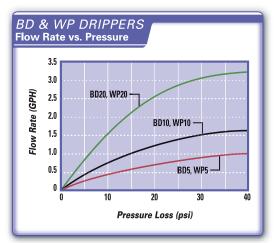
- Use in piping networks with limited pressure variation
- Planters and pots
- Wide-spaced plantings

Features/Benefits

- Wide turbulent flow passage resists clogging
- Barb inlet provides for easier installations
- Color-coding denotes flow

Specifications

- Flow rates: 0.5, 1.0 or 2.0 GPH
- BD and WP models use .160" x .220" micro-tubing (Model EDTUBE)
- Maximum pressure: 40 psi
- Recommended filtration: 120 mesh



Model Number	Description	Color	Bag Quantity
BD5	0.5 GPH BD Dripper Barb Inlet	Red	25
BD5-250	0.5 GPH BD Dripper Barb Inlet	Red	250
BD10	1.0 GPH BD Dripper Barb Inlet	Black	25
BD10-250	1.0 GPH BD Dripper Barb Inlet	Black	250
BD20	2.0 GPH BD Dripper Barb Inlet	Green	25
BD20 - 250	2.0 GPH BD Dripper Barb Inlet	Green	250
WP5	0.5 GPH WP Dripper Barb Inlet	Red	25
WP5-250	0.5 GPH WP Dripper Barb Inlet	Red	250
WP10	1.0 GPH WP Dripper Barb Inlet	Black	25
WP10-250	1.0 GPH WP Dripper Barb Inlet	Black	250
WP20	2.0 GPH WP Dripper Barb Inlet	Green	25
WP20-250	2.0 GPH WP Dripper Barb Inlet	Green	250



BD DRIPPERS



WP DRIPPERS



Flexible, Thick-walled Polyethylene Pipe Connects Rotors and Sprayheads to Lateral Pipes

Applications

- Connects sprayheads and rotors to lateral piping networks
- Provides flexible, durable transition from pipes to sprinklers or drippers and dripperline
- · Positions sprinklers in hard-to-reach areas

Features/Benefits

- Extremely flexible polyethylene formula makes fitting insertion easy in hot or cold weather
- Hatch marks every 6" along the tubing make cutting to length easier (PTW-01FP only)
- Speeds installation of sprinklers by allowing for fast connections and easy setting to grade
- Acts as flexible swing joint, protecting sprinklers and laterals from impact damage

Specifications

- Maximum working pressure: 100 psi at 110° F
- Wall thickness: .105" (2.7mm)
- Diameter: ID: .490" (12.4mm), OD: .700" (17.8mm)
- Maximum flow: 8 GPM
- Burst pressure: 350 psi minimum

MICRO-TUBING



MICRO-TUBING Ordering Information		
Description	Coil Length	
.160" x .220" Polyethylene Micro-Tubing	100' 1,000 '	
	formation Description .160" x .220" Polyethylene	

NEW POLY SWING PIPE



POLY SWING PIPE Ordering Information

Model Number	Description	Coil Length
PTW-01FP	Poly Swing Pipe Extra Flexible	100'
PTW2-01	Poly Swing Pipe	100'

POLYETHYLENE TUBING

LOW DENSITY, UV RESISTANT



POLYETHYLENE TUBING Ordering Information

Model Number	Description	Coil Length
PE40-49-50 PE40-49-25	.400" X .490", .045" wal i (12mm)	500' 250'
PE52-62-50 PE52-62-25	.520" X .620", .050" wall (16mm)	500' 250'
PE60-70-50 PE60-70-25	.600" X .700", .050" wall (1/2")	500' 250'
PE82-94-50 PE82-94-25	.820" X .940", .060" wall (₃/₄")	500' 250'



<u>ACCESSORIES</u>

INSTALLATION TOOLS



GAUGE 30



GAUGE 100

INSTALLATION TOOLS Ordering Information

Model Number	Description
GAUGE30	0-30 psi Liquid Filled Pressure Gauge
GAUGE100	0-100 psi Liquid Filled Pressure Gauge
MTUBESPUN	Steel Punch for 5mm Micro Fittings
MTUBEPPUN	Plastic Handle Punch for 5mm Micro Fittings
WBTD	Wheelbarrow Tubing Dispenser
TDS	Wall Mounted Tubing Dispenser



MTUBESPUN Steel punch for 5mm Micro Fittings



MTUBEPPUN Plastic Punch for 5mm Micro Fittings



WBTD Wheelbarrow Tubing Dispenser



Wall Mounted Stationary Tubing Dispenser

MICRO-TUBE FITTINGS



EDTUBETEE



EDTUBEBA







EDTUBE8XMT

MICRO-TUBE FITTINGS Ordering Information Model Number Description Bag Quantity

	Number	Description	Quantity
	EDTUBETEE	5mm Barb Tee	25
	EDTUBEBA	5mm Barb Adapter	25
	EDTUBESTK	5mm Tubing Stake	25
	GOOFPLUG	5mm/8mm Goof P l ug	25
	EDTUBE8XMT	1/2" MPT x 8-Way for EDTUBE	25

MPT = Male Pipe Thread

EDTUBESTK

GOOFPLUG





ONETATIN

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