MEMECO
GENERAL TRADING

M E M E C O

DRIPLINE DATASHEET

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Introduction

Drip lines, also known as drip irrigation lines or drip tubing, represent a fundamental innovation in the world of water management and agriculture. These precision irrigation systems have revolutionized the way we deliver water to plants, ensuring efficiency, conservation, and improved plant health.

Drip lines are engineered to deliver water directly to the root zone of plants, bypassing the inefficiencies of traditional watering methods. By doing so, they reduce water wastage, minimize weed growth, enhance nutrient absorption, and promote overall plant vitality. This data sheet is your comprehensive guide to understanding drip lines, their components, advantages, and versatile applications.
Whether you are a farmer looking to optimize crop yields, a landscaper committed to lush and water-efficient gardens, or a home gardener seeking to nurture your plants, this data sheet will provide you with the insights needed to make informed decisions about implementing drip line systems in your projects.
In the pages that follow, we will delve into the key components of drip lines, explore their benefits, highlight their applications across various industries, and offer guidance on selecting the right drip line system for your specific needs. Join us as we uncover the world of precision irrigation and discover how drip lines are transforming the way we nurture our landscapes and grow our crops.
Welcome to the world of drip lines, where water meets efficiency, conservation meets productivity, and growth meets sustainability.
This introduction sets the stage for the data sheet, emphasizing the significance of drip lines and the value they bring to users across different fields. It also invites the reader to explore the data sheet further for comprehensive information on this irrigation technology.

1. **Principle of Drip Irrigation**: Drip lines work on the principle of delivering water directly to the base of plants through a network of tubes, pipes, and emitters. This targeted approach minimizes water wastage and ensures that plants receive the right amount of moisture.
2. **Components**: A typical drip line system consists of several key components:

- **Main Supply Line**: This is the main pipe that carries water from the water source to the distribution points.
- **Drip Tubing or Hose**: Thin plastic tubing or hose with built-in emitters that evenly release water along its length.
- **Emitters:** Small devices (drippers) spaced at regular intervals along the drip tubing that regulate the flow of water.

deformation temperature above 280 degrees. With excellent UV resistance, the surface color is not easy to fade.

- **Filters and Pressure Regulators**: These components ensure that the water is clean and delivered at the correct pressure.
- **Connectors and Fittings**: These are used to assemble and connect various parts of the system.
- End Caps and Flush Valves: These help control the flow of water at the beginning and end of the line.

3. **Advantages of Drip Lines**:

- **Water Efficiency**: Drip lines deliver water directly to the root zone, reducing water wastage due to evaporation and runoff.
- **Plant Health**: Precise watering helps maintain optimal soil moisture levels, promoting healthier plant growth.
- **Weed Control**: By targeting water delivery, drip lines reduce moisture around weed seeds, helping to control weed growth.
- **Fertilizer Application**: Fertilizers can be injected into the drip system, ensuring efficient nutrient delivery to plants.
- **Reduced Disease Spread**: Water is kept away from plant foliage, reducing the spread of diseases caused by moisture.

4. **Applications**: Drip lines are used in a wide range of applications, including:

- **Agriculture**: Drip irrigation is commonly used in agriculture for row crops, orchards, vineyards, and greenhouse cultivation.
- **Landscaping**: Drip lines are used to water flower beds, shrubs, and trees in residential and commercial landscapes.
- **Gardening**: Gardeners use drip lines to water vegetable gardens, flower gardens, and potted plants.
- **Nurseries**: Drip lines are essential for maintaining healthy nursery plants.

5. **Maintenance**: Regular maintenance of drip lines includes cleaning filters, checking for clogs in emitters, and ensuring proper pressure and flow rates.

6. **Customization**: Drip lines can be customized to suit the specific watering needs of different plants by adjusting the spacing and flow rate of emitters.

Drip lines have gained popularity due to their water efficiency and ability to improve plant health while conserving resources. They are an effective and sustainable irrigation solution in a variety of settings

MEMECO Drip Line (Non-PC) MEM_DLN

Dripline GR16 is an integral dripline manufactured in various wall thinkess, flowrates, and dripper spaces. Driplines utilizes a cylindircal dripper, designed with a large cross-sectional labyrinth. This configuration provides a turbulent water flow which minimizes the formation of residues that may cause clogging. Driplines are manufactured with two outlets and one inlet filters which ensure high resistance to clogging and reliable long life performance. Dripline is a durable thick walled drip line, ideal for field crops, orchards, greenhouses and landscapes.

Specifications for Drip Lines:

1. Dripper Flow Rates:

• 2 liters per hour (2L/Hr) and 4 liters per hour (4L/Hr).

2. Dripper Spacing:

• Starts from 20 cm (centimeters) and can be customized up to 150 cm (1.5 meters).

3. Pressure Compensation:

• Operates effectively within a pressure range of 0.9 to 1.1 bar (approximately 13 to 16 psi).

4. Maximum Recommended System Pressure:

• 5 Bar (approximately 72.5 psi).

5. Tubing Dimensions:

• Tubing Outer Diameter (OD): 16 mm (millimeters).
• Tubing Inner Diameter (ID): Approximately 13.8 mm.
• Wall Thickness: Ranges from 0.8 mm to 1.1 mm.

6. Coil Length:

• Coil Length: Available in 400 meters per coil.

7. Recommended Minimum Filtration:

• For 4L/Hr Drippers: Recommended minimum filtration is 120 mesh.
• For 2L/Hr Drippers: Recommended minimum filtration is 150 mesh.

8. Material:

• Both Drip line and Drippers: Made of durable polyethylene material.

• Polyethylene is a commonly used material in drip irrigation components due to its durability, resistance to corrosion, and suitability for use with water and agricultural applications. It is known for its ability to withstand exposure to sunlight, chemicals, and varying environmental conditions, making it a reliable choice for drippers used in irrigation systems.

Limited warranty for Drip Line

warrants Drip Line GR16 to be free from environmental stress cracking for a period of 7 years from the manufacturing date.

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MEMECO Drip Line (Non-PC) MEM_DLN

All GR drip line types are produced by default "1.1 mm" thickness and any other spaces or thickness will be as per request.

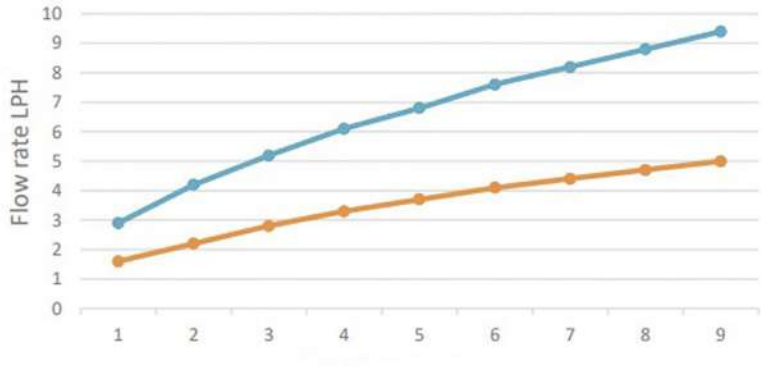
item code	D.mm	Th.mm	Flow	Sp.Cm
MEM_DLN161102020	16	1.1	2 L/H	20
MEM_DLN161102030	16	1.1	2 L/H	30
MEM_DLN161102033	16	1.1	2 L/H	33
MEM_DLN161102040	16	1.1	2 L/H	40
MEM_DLN161102050	16	1.1	2 L/H	50
MEM_DLN161102060	16	1.1	2 L/H	60
MEM_DLN161102070	16	1.1	2 L/H	70
MEM_DLN161102100	16	1.1	2 L/H	100
MEM_DLN161104020	16	1.1	4 L/H	20
MEM_DLN161104025	16	1.1	4 L/H	25
MEM_DLN161104030	16	1.1	4 L/H	30
MEM_DLN161104033	16	1.1	4 L/H	33
MEM_DLN161104040	16	1.1	4 L/H	40
MEM_DLN161104050	16	1.1	4 L/H	50
MEM_DLN161104060	16	1.1	4 L/H	60
MEM_DLN161104075	16	1.1	4 L/H	75
MEM_DLN161104100	16	1.1	4 L/H	100

"Figures may vary slightly within tolerance "

FLOW RATE DATA

Code	Color /Flow(L/h)	Spacing Between Drippers Maximum Recommended Drip Line (m) On Flat Terrain							
		20	25	30	33	40	50	75	100
MEM_DLN02	Red 2.2	40	45	50	58	70	79	102	128
MEM_DLN04	Black 4.2	28	32	38	44	50	55	84	103

Drippers Curves



Pressure (Bar)

2 LPH	1.6	2.2	2.8	3.3	3.7	4.1	4.4	4.7	5
4 LPH	2.9	4.2	5.2	6.1	6.8	7.6	8.2	8.8	9.4

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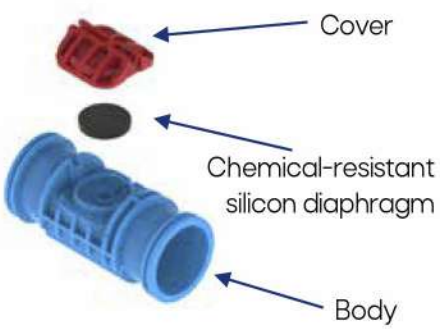
MEMECO HEAVY WALL ROUND DRIPLINES

Advanced water inlet design with industry leading filtration area

The large cross section along with the high turbulent flow path, provides high clogging resistance



Emitter Characteristics

- Available in two flow rates 2 and 4 l/h.
- State of the art flat emitter technology.
- Continuous self cleaning mechanism ensures **non-clogging** operation.
- High UV resistance. Resistant to all nutrients used in agriculture.
- Excellent for effluent water reuse.

Pressure Compensating (PC) emitters incorporate a silicone membrane which enables the delivery of precise and equal amounts of water over a broad pressure range

Anti-Siphon (AS) system is a specially designed mechanism that prevents suction of dirt and impurities into the emitter.

Product Applications

- Precision irrigation
- Uneven terrains
- Row crops
- Greenhouses
- Orchards
- Landscaping
- Gardening

Suitable for subsurface drip irrigation.

White & **Brown** color options are available on request

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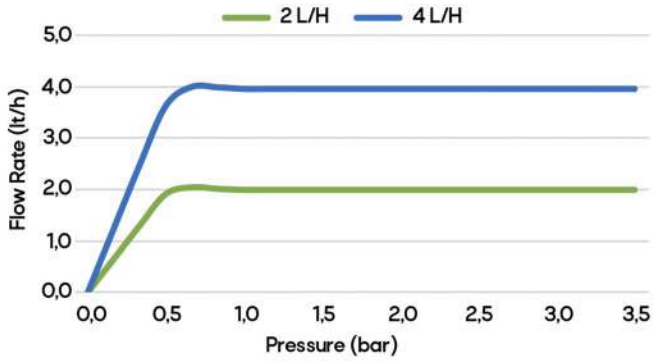
MEMECO ROS PC+AS DATA SHEET

Dia.	Wall Thickness		Working Pressure	Coil Length
(mm)	mil	mm	(bar)	(m)
16	36	0,90	0,5 - 3,5	400
	40	1,00	0,5 - 3,5	400
	44	1,10	0,5 - 3,5	400

PC Emitter Performance Curve



16 MM - MAXIMUM LATERAL LENGTH - %0 Slope - E:1.0mm

Flow Rate	Inlet Pressure (bar)	Emitter Spacing (cm)						
		20	30	40	50	60	70	80
2.0 L/H	1,0	55	78	97	116	133	149	164
	1,5	71	99	125	148	170	191	210
	2,0	82	114	144	171	196	220	243
	2,5	90	126	159	190	217	244	269
	3,0	98	137	172	205	235	264	292
	3,5	104	146	184	219	252	282	311
	4,0	110	154	194	231	265	298	329
4.0 L/H	1,0	35	49	62	74	84	95	104
	1,5	45	63	79	94	108	121	134
	2,0	52	72	92	109	125	140	155
	2,5	57	80	102	121	139	156	172
	3,0	62	87	110	131	150	169	186
	3,5	66	93	117	140	160	180	199
	4,0	70	98	124	148	169	190	210

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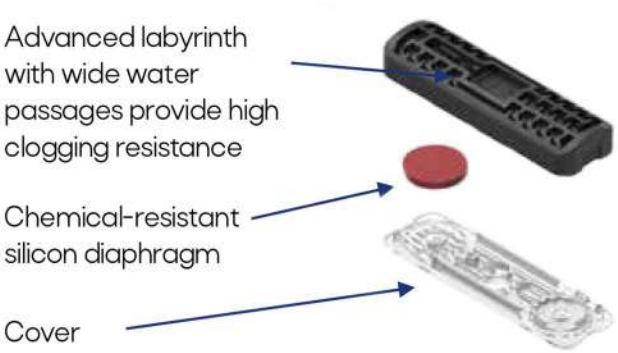
MEMECO MEDIUM AND HEAVY WALL FLAT PC DRIPLINES



Emitter Characteristics

- Wide range of flow rates from 1.0 to 3.8 l/h.
- State of the art flat emitter technology.
- Continuous self cleaning mechanism ensures **non-clogging** operation.
- Low friction losses due to the **ultra slim design** of the emitter.

Pressure Compensating (PC) emitters incorporate a silicone membrane which enables the delivery of precise and equal amounts of water over a broad pressure range.

Anti-Siphon (AS) system is a specially designed mechanism that prevents suction of dirt and impurities into the emitter.

Product Applications

- Precision irrigation
- Uneven terrains
- Greenhouses
- Orchards

Suitable for subsurface drip irrigation.

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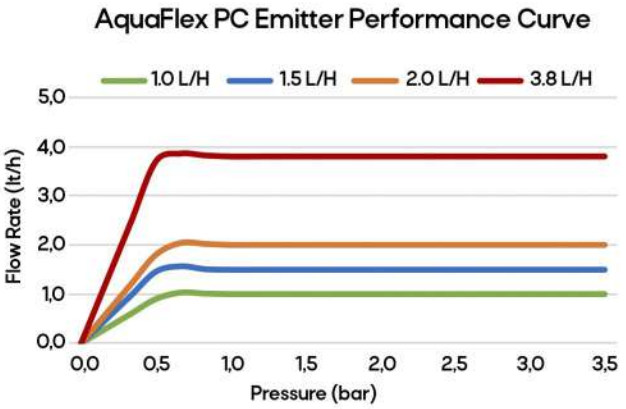
MEMECO FLEX PC+AS DATA SHEET

Dia.	Wall Thickness		Working Pressure	Coil Length
(mm)	mil	mm	(bar)	(m)
16	25	0,63	0,8 - 2,5	400
	30	0,76	0,8 - 2,5	400
	36	0,90	0,8 - 3,0	400
	40	1,00	0,8 - 3,5	400
	44	1,10	0,8 - 3,5	400
20	25	0,63	0,8 - 2,5	300
	30	0,76	0,8 - 2,5	300
	36	0,90	0,8 - 3,0	300
	40	1,00	0,8 - 3,5	300
	44	1,10	0,8 - 3,5	300



16 MM - MAXIMUM LATERAL LENGTH - %0 Slope - E:1.0mm

Flow Rate	Inlet Pressure (bar)	Emitter Spacing (cm)						
		20	30	40	50	60	70	80
1.0 L/H	1,0	82	106	128	148	166	183	200
	1,5	130	168	202	234	262	289	315
	2,0	158	205	246	284	319	352	384
	2,5	179	233	280	323	363	400	436
	3,0	197	255	307	354	398	439	478
	3,5	212	275	331	382	429	473	516
1.6 L/H	1,0	61	79	95	109	123	135	148
	1,5	96	125	150	173	194	214	233
	2,0	117	152	182	211	237	261	284
	2,5	133	172	207	239	268	296	323
	3,0	146	189	228	263	295	325	354
	3,5	157	204	245	283	318	350	382
2.0 L/H	1,0	53	68	82	95	106	117	128
	1,5	83	108	130	150	168	186	202
	2,0	101	132	158	183	205	226	246
	2,5	115	149	180	207	233	256	280
	3,0	127	164	197	228	256	282	307
	3,5	136	177	213	245	276	304	331
3.8 L/H	1,0	35	45	54	63	70	77	84
	1,5	55	72	86	99	112	123	134
	2,0	67	87	105	121	136	150	164
	2,5	76	99	119	138	154	170	185
	3,0	84	109	131	151	169	187	204
	3,5	90	117	141	163	183	202	220

20 MM - MAXIMUM LATERAL LENGTH - %0 Slope - E:1.0mm

Flow Rate	Inlet Pressure (bar)	Emitter Spacing (cm)						
		20	30	40	50	60	70	80
1.0 L/H	1,0	121	157	189	218	245	270	294
	1,5	192	249	299	345	387	427	464
	2,0	233	302	364	419	471	520	566
	2,5	265	343	413	476	535	590	642
	3,0	291	377	453	523	587	648	705
	3,5	313	406	488	563	633	698	760
1.6 L/H	1,0	90	117	140	162	181	200	218
	1,5	142	184	221	255	286	316	344
	2,0	173	224	269	311	349	385	419
	2,5	196	254	306	353	396	437	476
	3,0	216	279	336	387	435	480	523
	3,5	232	301	362	417	469	517	563
2.0 L/H	1,0	78	101	121	140	157	173	189
	1,5	123	159	192	221	249	274	299
	2,0	150	194	234	269	303	333	364
	2,5	170	221	265	306	343	379	412
	3,0	187	242	291	336	378	416	453
	3,5	201	261	314	362	406	448	488
3.8 L/H	1,0	52	67	80	93	104	115	125
	1,5	82	106	127	147	165	182	198
	2,0	99	129	155	179	201	221	241
	2,5	113	146	176	203	228	252	274
	3,0	124	161	193	223	250	276	301
	3,5	134	173	208	240	270	298	324

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