

Rivulis D5000 PC

THE NEXT EVOLUTION IN DRIP TECHNOLOGY



D5000 PC

Flow Regulating Drip Line with Anti-Siphon Option

Drip Line	D5000 PC
Mechanism	Silicone diaphragm with self-cleaning feature
Pressure compensating / Flow regulating	✓
Anti-Siphon	D5000 AS available
Flow Rates (l/h)	0.65, 1.0, 1.5, 2.0, 3.5
Standard Emitter Spacings (cm)	15 (0.65, 1.0 l/h emitters only), 20, 30, 40, 50, 60, 75 and 100 cm
Nominal Drip Line Diameter (mm)	16, 17, 20, 22, 23
Drip Line Wall Thickness (mil)	15 (0.38 mm), 25 (0.64 mm), 30 (0.76 mm), 35 (0.9 mm), 40 (1.0 mm), 45 (1.14 mm), 47 (1.2 mm)
Outlet	Slit (PC - 15 mil wall thickness), hole (all other configurations)
Operating Pressure Range (bar)	0.5 – 3.5 (according to diameter and wall thickness)



www.rivulis.com

D5000 PC & D5000 AS DRIP LINES



EVOLUTION: ADVANCEMENT OF PC DRIP TECHNOLOGY

D5000 PC drip line represents the most significant advancement of PC drip technology in the past decade. After many years of research, the D5000 PC was launched in 2011 and set a new standard in drip line technology.

*From engineering designed to provide maximum resistance clogging to precision manufacturing with state of the art quality controls, D5000 PC is the drip line to choose if **compromise is not an option.***

Traditional Emitters



Small inlet
filtration
area

Narrow
& short
labyrinth

Small
outlet
area

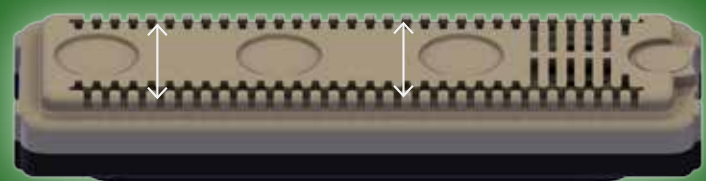
Modular-linear layout, reduced filtration area
Increased clogging risk, small outlet area

D5000 Maximized Design



Large
Labyrinth

Large
Outlet Pool



Multi-zone inlet filters

Every component maximized
Outstanding performance
& resistance to clogging

"We have hard water that often causes problems in drip irrigation. However we have found that **Rivulis D5000 performs exceptionally well, even with the high mineral & high biomass content in our water.**"

Gali Tal, Field Crops Manager at Megiddo Mt' Farm, Israel

40 independent inlet filters across **3 zones** in every D5000 PC emitter



Inlet filters are your first layer of protection against foreign particles. D5000 PC features a unique multi-zone inlet area with 40 inlet filters to provide maximum protection to clogging and almost 300% functional filtration area compared to main competitive product in the market.

Extra **wide** flow labyrinth

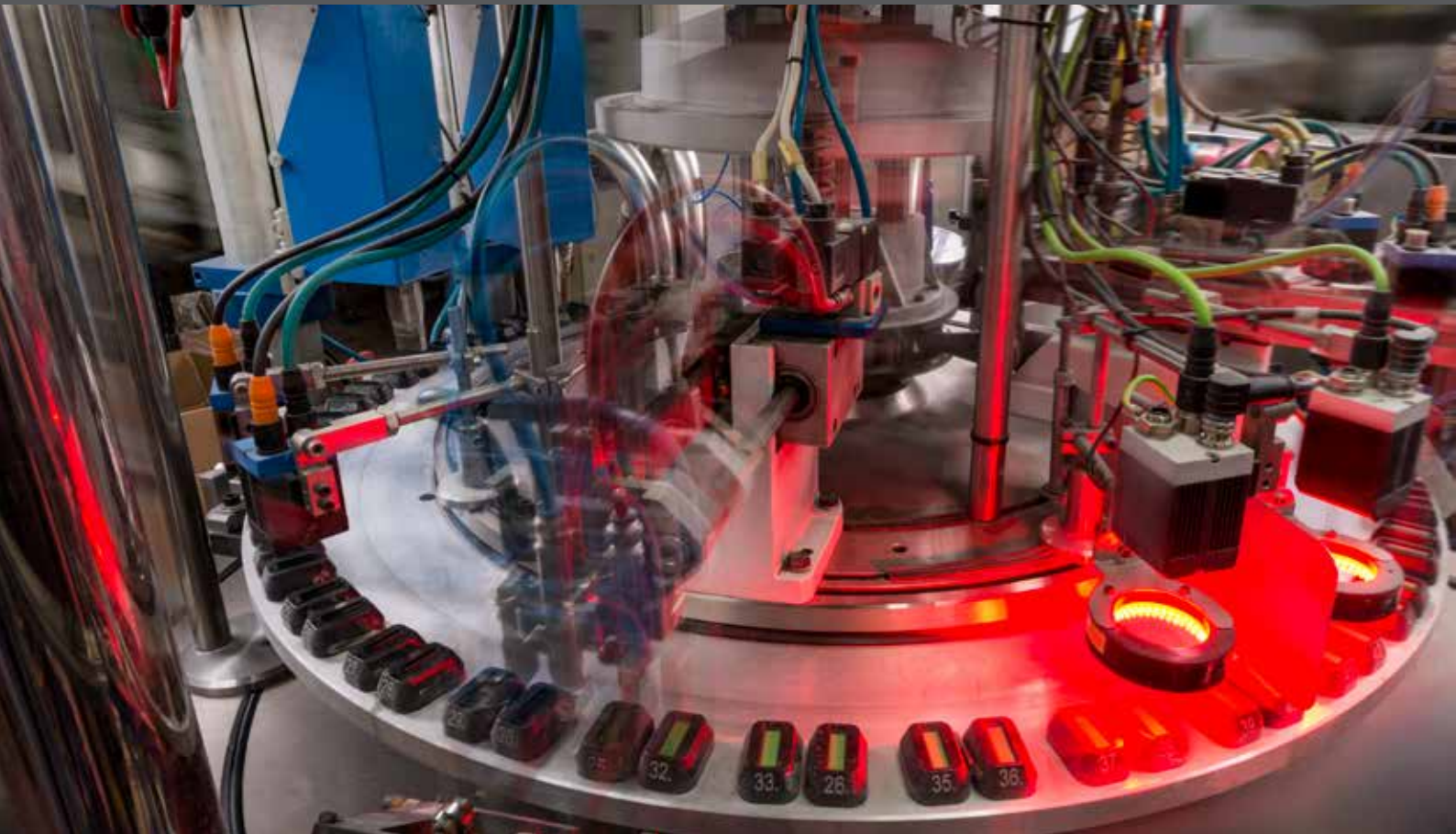


Advanced engineering of the D5000 PC labyrinth provides the ultimate balance of incrementally reducing flow while also forming high turbulence in the emitter to help ensure solids stay in suspension. D5000 PC features one of the largest flow paths available to help prevent clogging.

Full size outlet pool



Dirt ingestion is a risk for all drip irrigation systems. The unique long outlet pool of the D5000 PC in conjunction with the raised wall design provides the maximum distance between the emitter outlet and the tube hole to help prevent dirt suck-back. The full size pool also allows slit outlet in 15 mil configurations.



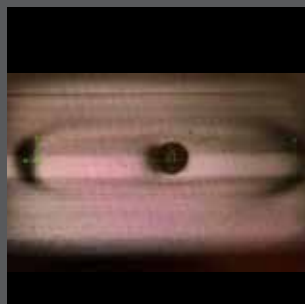
EVOLUTION: PRECISION MANUFACTURING & QUALITY

AUTOMATED ASSEMBLY



Every emitter manufactured goes through a multi-stage automated testing process to ensure correct assembly

IN-LINE MONITORING



A photo of every inserted emitter is taken (up to 7 per second) to ensure correct alignment in the drip line during production

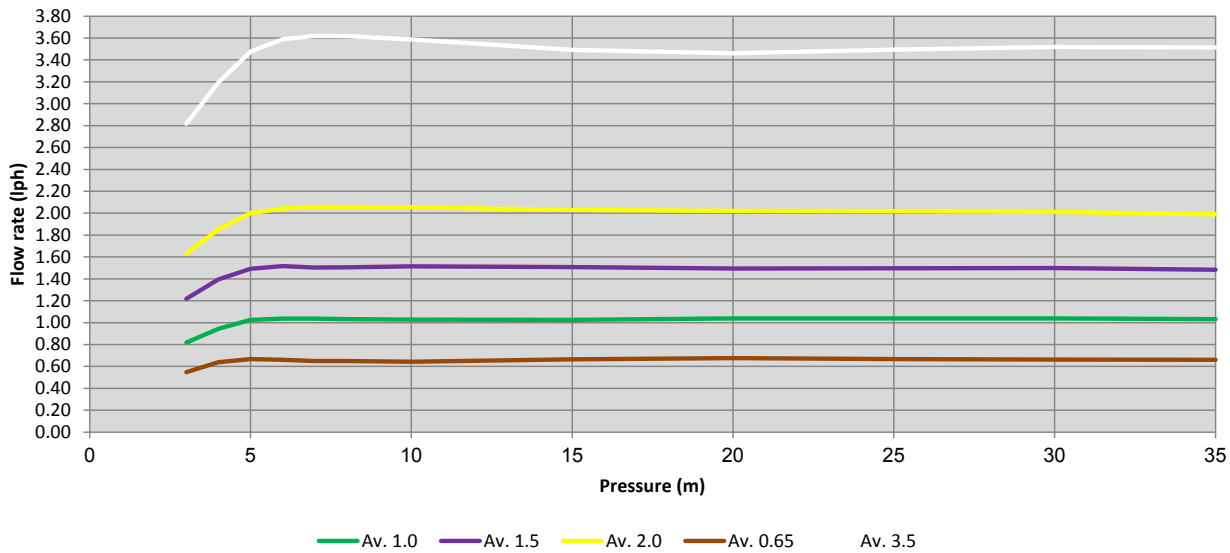
ROLL TESTING



Before dispatch, D5000 PC must meet a number of stringent tests including, flow test, tube analysis, weld strength and tensile strength tests

DELIVERING OUTSTANDING CROP UNIFORMITY

With one of the widest flow regulating ranges available, D5000 PC provides outstanding uniformity even on undulating terrain or long-run lengths. This helps ensure that your crop at the end of rows receives the same amount of water as those at the start for more consistent yields.



ANTI-SIPHON: D5000 AS NOW AVAILABLE

In conditions where risk of soil ingestion at shut-off is high, D5000 AS protects you through anti-siphon diaphragm technology.

When there is negative pressure in the hose (i.e. a vacuum caused at system shut-off), the membrane lowers against the inlet filters, which in turn slows the reverse of water. The stronger the vacuum, the stronger the seal that is made. **D5000 AS – additional protection to your sub-surface irrigation system.**

DRIP LINE WITH POSITIVE PRESSURE IN HOSE

Pressure in hose raises pressure regulating diaphragm, allowing water to enter the D5000 emitter through the emitter inlet



DRIP LINE WITH NEGATIVE PRESSURE (VACUUM) IN HOSE

Negative pressure (vacuum) in the hose causes the diaphragm to create a seal against the raised edges of the emitter inlet, preventing suck-back through the emitter



D5000 PC & D5000 AS – PERFORMANCE DATA

Nominal Ø	Wall thickness		Internal Ø	Outside Ø	Flow rate	Maximum Operating Pressure	Roll Length**	Spacing between Emitters (cm)								
								15	20	30	40	50	60	75	100	
(mm)	(mil)	(mm)	(mm)	(mm)	(l/h)	(bar)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)		
16	15*	16	16.4	17.16	0.65	2.2	800	174	223	312	392	467	536	632	777	
16	35/40	16	13.8	15.32		2.5	600	144	186	263	333	399	460	545	676	
17	18	17	15.3	16.20		2.2	1100	162	207	290	364	433	496	614	720	
17	25	17	15.3	16.57		2.5	800	180	234	335	429	519	604	728	921	
17	40/45	17	15.3	17.33 / 17.59		3.5	450	197	252	353	445	529	607	717	882	
20	40/47	20	17.6	19.63 / 19.99		3.5	350	266	339	470	588	695	795	935	1145	
22	15	22	22.2	23.47		2.5	500	332	415	562	692	810	919	1070	1299	
23	40	23	20.8	22.84		3.0	350	362	456	623	770	904	1028	1201	1461	
16	15*	16	16.4	17.16		1.0	2.2	800	131	168	236	297	353	406	479	590
16	30	16	13.8	15.32	2.5		600	101	130	184	234	280	322	383	474	
16	35	16	13.8	15.58	3.0		500	109	140	199	252	302	349	414	513	
16	40	16	13.8	15.83	3.5		400	116	149	212	269	322	371	441	547	
17	18	17	15.3	16.20	2.2		1100	122	157	219	276	328	377	445	547	
17	25	17	15.3	16.57	2.5		800	128	164	230	290	345	396	467	576	
17	35	17	15.3	17.08	3.0		450	139	179	251	316	376	432	510	628	
17	40/45	17	15.3	17.33 / 17.59	3.5		450	148	190	267	337	401	461	544	670	
20	40/45/47	17	17.6	19.63 / 19.89 / 19.99	3.5		350	201	256	356	446	528	604	710	870	
22	15*	22	22.2	22.96	1.8		800	253	316	428	527	617	700	816	990	
22	25	22	22.2	23.47	2.5		500	290	364	494	609	714	810	944	1147	
23	40	23	20.8	22.84	3.0		350	273	344	470	582	683	778	908	1106	
16	15*	16	16.4	17.16	1.5		2.2	800	101	129	181	228	272	312	369	454
16	30	16	13.8	15.32			2.5	600	77	100	141	179	215	248	294	365
16	35	16	13.8	15.58			3.0	500	83	107	152	194	232	268	318	395
16	40	16	13.8	15.83		3.5	400	89	114	163	206	248	286	340	421	
17	18	17	15.3	16.20		2.2	1100	94	120	169	212	253	290	342	422	
17	25	17	15.3	16.57		2.5	800	98	126	177	223	266	305	360	444	
17	35	17	15.3	17.08		3.0	450	107	137	193	243	289	332	393	484	
17	40/45	17	15.3	17.33 / 17.59		3.5	450	114	146	205	259	309	355	419	516	
20	40/45/47	17	17.6	19.63 / 19.89 / 19.99		3.5	350	154	197	274	343	406	465	547	671	
22	15*	22	22.2	22.96		1.8	800	194	243	330	406	476	540	629	764	
22	25	22	22.2	23.47		2.5	500	223	280	380	469	550	625	728	886	
23	40	23	20.8	22.84		3.0	350	209	264	362	448	527	599	701	853	
16	15*	16	16.4	17.16		2.0	2.2	800	83	107	150	190	226	259	306	377
16	30	16	13.8	15.32			2.5	600	64	82	117	149	178	206	245	303
16	35	16	13.8	15.58			3.0	500	69	89	126	161	193	223	264	328
16	40	16	13.8	15.83	3.5		400	73	95	135	171	205	237	282	350	
17	18	17	15.3	16.20	2.2		1100	77	99	140	176	210	241	284	350	
17	25	17	15.3	16.57	2.5		800	81	104	147	185	221	253	299	368	
17	35	17	15.3	17.08	3.0		450	88	114	160	202	240	276	326	402	
17	40/45	17	15.3	17.33 / 17.59	3.5		450	94	120	169	213	255	293	346	426	
20	40/45/47	17	17.6	19.63 / 19.89 / 19.99	3.5		350	128	163	227	284	337	386	455	558	
22	15*	22	22.2	22.96	1.8		800	161	202	274	338	396	449	524	636	
22	25	22	22.2	23.47	2.5		500	185	232	316	390	457	520	606	737	
23	40	23	20.8	22.84	3.0		350	174	219	300	372	438	499	582	710	

D5000 PC & D5000 AS – PERFORMANCE DATA (CONTINUED)

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16	30	16	13.8	15.32		2.5	600	64	82	117	149	178	206	245	303
16	35	16	13.8	15.58		3.0	500	69	89	126	161	193	223	264	328
16	40	16	13.8	15.83		3.5	400	73	95	135	171	205	237	282	350
17	18	17	15.3	16.20		2.2	1100	77	99	140	176	210	241	284	350
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20	40/45/47	17	17.6	19.63 / 19.89 / 19.99		3.5	350	128	163	227	284	337	386	455	558
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22	25	22	22.2	23.47		2.5	500	185	232	316	390	457	520	606	737
23	40	23	20.8	22.84		3.0	350	174	219	300	372	438	499	582	710

* Not available in AS

** Roll lengths are smaller for emitter spacing less than 20 cm. Please consult with Rivulis Irrigation for additional information.

RIVULIS TRIPLE-BARB DRIP LINE CONNECTORS

Why risk your irrigation system with inferior connectors?

With 3 barbs on most models, Rivulis Drip Line Connectors provide ultimate sealing interface without the need of additional ratchet clamps – helping save both time and money during installation.

Rivulis drip line connectors are suitable for drip lines 30 mil (0.75 mm) and thicker. For thinner D5000 configurations, trust Rivulis Pro-Grip and Rivulis Fast Ring Connectors.



Unique triple barb design

D5000 PC FLOW REGULATING DRIP LINE

"The D5000 sub-surface drip irrigation systems stands out for multiple reasons. The system uses far less water, fertilizer and chemicals compared to overhead irrigation. Additionally, the application of fertilizers and chemicals is much easier. It is possible to be precise with both quantity and timing, including daily application if required to maximize efficiency.

Traditional irrigation techniques on the other hand are much less precise, and therefore result in wasted fertilizers and chemicals, along with high mechanical costs."

Paulo Sérgio Fragnito, Vista Alegre Farm, Brazil

