IDROP® - light/pc

TURBULENT FLOW PRESSURE COMPENSATING DRIPPER

iDrop in the LIGHT – PC version is the Irritec online dripper with pressure compensating turbulent flow offering all its technology in truly reduced dimensions. It has a double inlet filter, a resistant silicone membrane and a turbulent labyrinth that contributes to increasing its excellent hydraulic characteristics. Working quality, assembly functionality of the numerous possible combinations and contained costs are the main characteristics. iDrop light was specifically designed for overground and it is the economical and versatile answer by Irritec to farmers' needs.

Characteristics and advantages

- Available with Drop Stop system (ANTI-DRIP).
- Ideal for greenhouses and nurseries and for all situations where utmost precision is necessary when supplying water.
- Turbulent flow prevents sedimentation and clogging.
- Multiple inlet filter: the dripper avails of a double inlet system, one axial and the other branched, which improve the water flow to the device.
- Flow rate is identified by the colour of the outlet base.
- Multi-functional outlet suitable for connection of the micropipes and manifold.

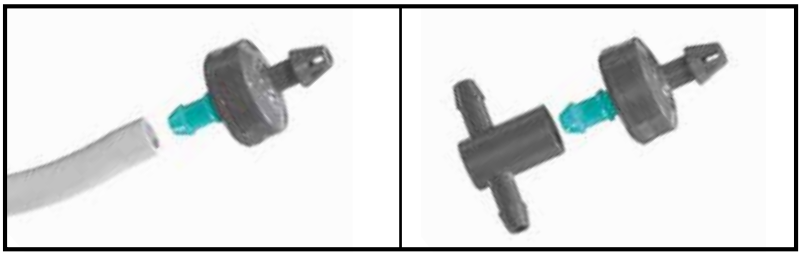
Field of application

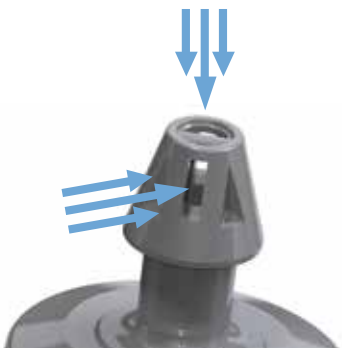
Crops protected underground | Crops protected overground | Nurseries | Hedges, trees and flowerbeds

The multiple inlet filter **improves water flow!**

iDrop® light - PC Multi-functional outlet

The new iDrop light - PC with multi-functional outlet allows assembly of all types of Irritec manifolds and also micropipes ø 6x4mm or ø 5x3mm thanks to the innovative, multi-functional outlet.





Water multiple inlet

iDrop light / PC - Dripper characteristics

Actual flow rate	Colour	Inlet filter		Flow Equation		Recommended filtering	CV	Minimum working pressure in bar			Drop Stop System **DS** in bar		Drop Stop System **HDS** in bar		Insertion hole
lph	**-**	**Area mm²**	**No. holes**	**x**	**k**	**mesh**	**%**	**PC**	**PCDS**	**PC HDS**	**opening**	**closure**	**opening**	**closure**	**mm**
1,10		2,9	4	0,03	1,01	150	5,00	0,5	0,7	1	0,25	0,15	0,60	0,30	2,5-3,0
2,10		2,9	4	0,03	1,92	120	3,00	0,5	0,7	1	0,25	0,15	0,60	0,30	2,5-3,0
3,80		2,9	4	0,03	3,55	120	3,00	0,5	0,7	1	0,25	0,15	0,60	0,30	2,5-3,0
7,80		2,9	4	0,03	7,30	100	3,00	0,5	0,7	1	0,25	0,15	0,60	0,30	2,5-3,0

Working range: DS version from 0.7 to 4.0 bar - HDS version from 1.0 to 4.0 bar.

Available flow rates iDrop light/pc


1,10 lph - PINK

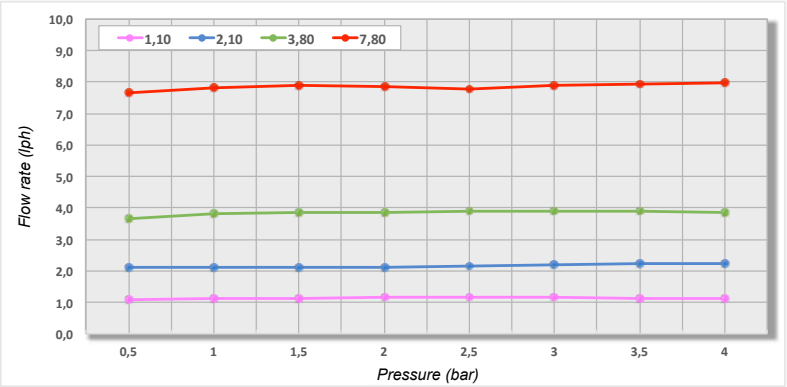

2,10 lph - LIGHT BLUE


3,80 lph - GREEN


7,80 lph - RED

iDrop light / PC - Pressure - flow rate ratio

Flow rate	Pressure (bar)							
lph	**0,5**	**1**	**1,5**	**2**	**2,5**	**3**	**3,5**	**4**
1,10	1,08	1,14	1,12	1,18	1,16	1,15	1,14	1,13
2,10	2,11	2,12	2,13	2,11	2,17	2,20	2,22	2,21
3,80	3,65	3,80	3,85	3,87	3,88	3,90	3,91	3,87
7,80	7,65	7,82	7,91	7,84	7,79	7,88	7,93	7,98



iDrop light / PC - Lengths recommended of the lines in metres, based on working pressure

Tube D.E. 16 D.I. 14 mm | Kd=0,4									
Flow rate lph	P bar	Spacing (m)							
		0,2	**0,3**	**0,4**	**0,5**	**0,6**	**0,75**	**1,0**	**1,5**
1,1	1	94	122	147	169	190	228	263	341
	2	158	205	247	284	320	384	443	573
	3	194	252	303	349	392	472	544	704
	4	221	287	345	398	447	537	620	801
2,1	1	63	81	98	113	127	152	176	227
	2	105	137	164	190	213	256	295	382
	3	129	168	202	233	262	314	362	469
	4	147	191	230	265	298	358	413	535
3,8	1	43	55	67	77	86	95	120	155
	2	71	93	112	129	145	160	201	261
	3	87	114	137	158	178	197	247	320
	4	100	130	156	180	203	224	281	365
7,8	1	27	35	42	49	55	63	76	98
	2	45	59	71	82	92	106	127	165
	3	55	72	87	100	113	130	156	203
	4	63	82	99	114	128	148	178	231

Tube D.E.20 D.I. 17,6 mm | Kd=0,2									
Flow rate lph	P bar	Spacing (m)							
		0,2	**0,3**	**0,4**	**0,5**	**0,6**	**0,75**	**1,0**	**1,5**
1,1	1	139	181	218	251	282	339	391	506
	2	234	304	366	422	474	570	657	850
	3	288	374	449	518	583	700	806	1045
	4	328	426	512	591	664	797	919	1190
2,1	1	93	121	145	167	188	226	260	337
	2	156	203	244	281	316	380	438	567
	3	192	249	299	345	388	467	538	697
	4	218	284	341	394	442	532	613	793
3,8	1	63	82	99	114	128	141	178	230
	2	106	138	166	191	215	238	299	387
	3	130	169	204	235	264	292	367	475
	4	148	192	232	268	301	332	418	541
7,8	1	40	52	63	72	81	94	112	146
	2	67	87	105	121	136	157	189	245
	3	82	107	129	149	167	193	232	301
	4	93	122	147	169	190	220	264	342

• P= Working pressure in bar • Slope=0
Minimum working pressure=0,7 bar