PRODRIP PC

Self-cleaning self-compensating flat dripper with PC, PCND and PCAS options

Efficient solutions
for **irrigation systems**

MICRO-IRRIGATION PIPES

PRODRIP PC

The new self-compensating flat emitter integrated into multi-seasonal irrigation pipes **PRODRIP PC** developed by GESTIRIEGO, is manufactured in various wall thicknesses, drippers of various flows and spacing between emitters from 20 to 250 cm, which allows farmers to adapt to different situations on farms.
Recommended for watering in topographically complicated terrains, and where lateral lengths are required. Thin/medium wall line, 0.90 and 1.00 mm, equipped with a flat self-compensating dripper with a wide inlet filter, ensuring good protection against clogging. High discharge uniformity between emitters.
Compact and efficient. Thermo-welded flat dripper with Ultra-Slim emitter, with maximum filtration surface and maximum resistance to clogging.
This pipe comes with a 5-year warranty.

FEATURES/BENEFITS

- Self-Compensating Emitter: Pressure Compensation (PC) for maximum accuracy over variable topographies and long sides.
- Cascade labyrinth that provides strong turbulence to avoid areas of particle sedimentation, resulting in a highly clog-resistant emitter.
- Hydrodynamic dripper design ensures continuous washing of sediment and small dirt particles in the area between the membrane and the microchannel.
- Excellent coefficient of variation (CV) for maximum uniformity.
- Discharge exponent (x) of 0.0.
- High quality silicone diaphragm.
- Available in regular rolls or cardboard rolls..
- Durable under arduous field conditions and resistant to agrochemical applications.

PRODRIP PC				
DIAMETER	THICKNESS	CAUDAL	PRESSURE	SEPARATION BETWEEN EMITTERS
mm		l/h	bar	m
16	0'9 1'0	1'1 1'5 2'4 3'8	2'0	0'20 0'25 0'30 0'33 0'40 0'50 0'60 0'75 1'00 1'25 1'50 2'00

FORMATS			
DIAMETER	DISTANCE	FORMAT	
mm	mm	Rollo	Bobina
16	0,20	550 m.	350 m.
	0,25	550 m.	350 m.
	0,30	550 m.	350 m.
	0,33	550 m.	350 m.
	0,40	550 m.	350 m.
	0,50	550 m.	370 m.
	0,60	550 m.	370 m.
	0,75	550 m.	370 m.
	1,00	550 m.	400 m.
	1,25	550 m.	400 m.
	1,50	550 m.	400 m.
	2,00	550 m.	400 m.

PRODRIP PC

SPECIFICATIONS

- Versions of the dripper PC ND (self-compensating and anti-draining system that reduces the filling time of the side and facilitates pulse irrigation) and PD AS (design with pressure compensation and anti-suction that prevents suction in the drainage stage. Suitable to avoid the obstruction generated by small dirt particles), especially indicated for underground irrigation installations.
- The opening pressure of the dripper is 0.3 - 0.5 bar
- The closing pressure of the dripper is 0.2 - 0.3 bar.
- Wall thickness 0.9 and 1.0mm.
- Flow rates: 1.1, 1.5, 2.4, 3.8 L/h.

APPLICATIONS

- For irrigation of intensive crops.
- For farms with tree and horticultural crops.
- For greenhouse irrigation. The ND version is ideal.
- For green areas and gardening.

TECHNICAL DATA

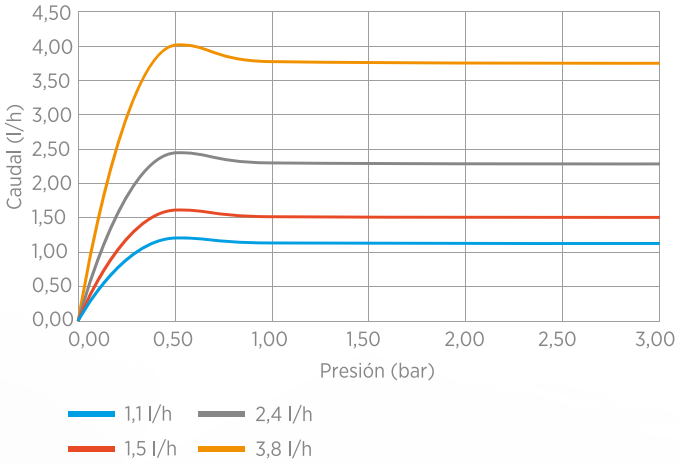
WALL THICKNESSES				
DIAMETER NOMINAL	INNER DIAMETER	WALL THICKNESS	NOMINAL PRESSURE	MAXIMUM WORKING PRESSURE
mm		l/h	bar	m
16	13'8	0'90	2'00	3'00
	13'8	1'00	2'00	3'50

PRODRIP PC			
DIAMETER NOMINAL	CAUDAL	HOMOGENEITY	DISCHARGE EXPONENT
mm	l/h	%	
16	1'1	3'6	0'00
	1'5	3'6	0'00
	2'4	3'6	0'00
	3'8	3'7	0'00

FLOW-PRESSURE TABLE								
DIAMETER	CAUDAL	PRESSURE						
		0'00	0'5	1'0	1'5	2'0	2'5	3'0
		mm						
		CAUDAL						
mm	mm	l/h						
16	1'1	0'00	1'10	1'08	1'12	1'16	1'09	1'07
	1'5	0'00	1'52	1'49	1'49	1'51	1,50	1'48
	2'4	0'00	2'28	2'22	2'29	2'36	2'39	2'35
	3'8	0'00	3'80	3'67	3'69	3'74	3'89	3'90

PRODRIP PC

PRODRIP PC													
DIAM.	CAUDAL *flow / débit*	PRESIÓN *pressure*	MAXIMUM BRANCH LENGTHS ON FLAT GROUND										
			0,20	0,25	0,30	0,33	0,40	0,50	0,60	0,75	1,00	1,25	1,50	2,00
(Ø)	(l/h)	(Bar)	(m)											
16	1,1	1,50	105	126	146	157	183	217	248	292	360	420	477	604
		2,00	123	149	172	186	217	256	293	346	425	198	565	715
		2,50	139	166	193	205	242	286	328	386	476	558	632	800
		3,00	150	180	210	226	163	312	357	421	518	606	688	872
	1,5	1,50	87	105	121	131	152	180	207	243	300	350	398	503
		2,00	103	124	144	155	180	213	244	288	354	415	470	596
		2,50	115	139	161	171	202	239	274	322	397	465	527	667
		3,00	125	150	175	188	219	260	298	351	432	505	573	727
	2,4	1,50	66	80	91	99	114	137	156	184	226	265	300	373
		2,00	78	94	109	116	136	161	184	217	268	313	355	442
		2,50	87	105	121	131	151	180	207	243	300	350	399	498
		3,00	94	113	132	142	165	196	225	265	326	382	434	541
	3,8	1,50	48	57	66	71	82	98	113	133	162	190	215	269
		2,00	55	67	78	83	97	115	133	156	192	226	256	320
		2,50	62	75	86	93	109	130	148	175	215	252	287	359
		3,00	68	81	94	102	118	141	161	190	234	275	311	389



CHARACTERISTIC EQUATION		
DIÁMETRO *diameter / diamètre*	CAUDAL *flow / débit*	$q=k \cdot p^x$
(mm)	(l/h)	q (l/h) , p (bar)
16	1,1	$q = 1{,}08 \cdot p^{0{,}03}$
	1,5	$q = 1{,}51 \cdot p^{0{,}02}$
	2,4	$q = 2{,}39 \cdot p^{0{,}03}$
	3,8	$q = 3{,}75 \cdot p^{0{,}01}$

ACCESORIOS RECOMENDADOS

BROWN SAFETY TEE

BROWN SAFETY SOCKET

BROWN SAFETY SOCKET WITH GROMMET

BROWN SAFETY COUPLING

BROWN SAFETY ELBOW

BRANCH VALVE

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