

DripNet PC™ AS XR TWD & MWD

Compact integral pressure-compensated, continuously self-flushing, anti-siphon mechanism with improved resistance to root intrusion dripper for semi permanent applications

→ 12125 - 12150 - 12200 - 12250 - 16125 - 16150 - 16200
16250 - 22135 - 22150 - 22250 - 25135 - 25150 - 25250



Root intrusion protection



Pressure-compensated



Anti-Siphon mechanism

/ Benefits & Features

- **Physical root barrier**
Drippers are protected against root intrusion better than all other options, utilizing a patented root inhibitor within the dripper cover that prevents root intrusion into the dripper labyrinth. Better protection against root intrusion without reliance on chemicals. Long lasting protection due to non migrating active ingredients embedded in the dripper cover.
- **Pressure-compensated**
Precise and equal amounts of water delivered over a broad pressure range, ensuring 100% uniformity of water and nutrient distribution along the laterals.
- **Anti-Siphon mechanism**
Prevents contaminants from being drawn into the dripper, making it ideal for sub surface applications.
- **Continuously self-flushing**
Flushes debris, throughout operation, while ensuring constant dripper operation.
- **Wide filtration area**
Makes DripNet PC™ highly resistant to clogging with poor quality water, thus increasing filtration efficiency.
- **TurboNet™**
Labyrinth ensures wide water passages, to increase flushing efficiency. The water is drawn into the dripper from the stream center, preventing the entrance of sediments into the drippers.

/ Specifications

- ✓ Pressure-compensated range: 0.25/ 0.40/ 0.60-2.5/ 3.0/ 3.5 bar (according to flow rate model & driplines wall-thickness).
- ✓ Recommended filtration: depending on dripper flow rate. Filtration method selected based on the kind and concentration of dirt particles contained in the water. Wherever sand exceeding 2 ppm exists in the water, a Hydrocyclone shall be installed before the main filter. Where sand/silt/clay solids exceed 100 ppm, pre treatment shall be applied following Netafim expert instructions.
- ✓ TurboNet™ labyrinth with large water passage.
- ✓ Weldable into thin and medium wall driplines (0.31, 0.34, 0.38, 0.50, 0.63 mm).
- ✓ Injected dripper, very low CV with injected silicon diaphragm.
- ✓ High UV resistant. Resistant to standard nutrients used in agriculture.
- ✓ DripNet PC™ driplines meet ISO 9261 Standards with Israel Standard Institute (SII)-certified production.

→ DRIPPERS TECHNICAL DATA

FLOW RATE* (L/H)	WORKING PRESSURE RANGE (BAR)	WATER PASSAGES DIMENSIONS WIDTH-DEPTH-LENGTH (MM)	FILTRATION AREA (MM ²)	CONSTANT K	EXPONENT* X	RECOMMENDED FILTRATION (MICRON)/(MESH)
0.6	0.25 - 2.5	0.52 x 0.60 x 22	42	0.6	0	130/120
1.0	0.40 - 3.0	0.61 x 0.60 x 8	42	1.0	0	130/120
1.6	0.40 - 3.0	0.76 x 0.73 x 8	42	1.6	0	200/80
2.0	0.40 - 3.5	0.84 x 0.80 x 8	42	2.0	0	200/80
3.0	0.40 - 3.5	1.02 x 0.88 x 8	42	3.0	0	200/80
3.8	0.60 - 3.5	1.02 x 0.88 x 8	42	3.8	0	200/80

* Within working pressure range

→ DRIPLINES TECHNICAL DATA

MODEL	INSIDE DIAMETER (MM)	WALL THICKNESS (MM)	OUTSIDE DIAMETER (MM)	MAX. WORKING PRESSURE (BAR)	MAXIMUM FLUSHING PRESSURE (BAR)	KD
12125	11.80	0.31	12.42	2.5	2.9	1.35
12150	11.80	0.38	12.56	3.0	3.5	1.35
12200	11.80	0.50	12.80	3.0	3.9	1.35
12250	11.80	0.63	13.06	3.0	3.9	1.35
16125	16.20	0.31	16.82	1.8	2.1	0.40
16150	16.20	0.38	16.96	2.2	2.5	0.40
16200	15.50	0.50	16.50	2.5	3.3	0.55
16250	15.50	0.63	16.76	2.8	3.6	0.55
22135	22.20	0.34	22.88	1.5	1.7	0.18
22150	22.20	0.38	22.96	1.8	2.1	0.18
22250	22.20	0.63	23.46	2.5	2.9	0.18
25135	25.00	0.34	25.68	1.2	1.4	0.04
25150	25.00	0.38	25.76	1.4	1.6	0.04
25250	25.00	0.63	26.26	2.0	2.3	0.04

→ **DRIPLINES PACKAGE DATA (ON CARTON COIL)**

MODEL	WALL THICKNESS (MM)	DISTANCE BETWEEN DRIPPERS (M)	COIL LENGTH (M)	AVERAGE* COIL WEIGHT (KG)	COILS PER PALLET (UNITS)	COILS IN A 40 FEET CONTAINER (UNITS)	TOTAL IN A 40 FEET CONTAINER (M)
12125	0.31	0.15 to 0.19	900	14.3	12	480	432000
		0.20 to 0.35	1000	13.6			480000
		0.40 to 1.00	1000	13.0			480000
12150	0.38	0.15 to 0.19	600	11.1	12	480	288000
		0.20 to 0.35	700	11.3			336000
		0.40 to 1.00	700	10.9			336000
12200	0.50	0.15 to 0.19	650	14.9	12	480	312000
		0.20 to 0.35	750	15.4			360000
		0.40 to 1.00	850	17.4			408000
12250	0.63	0.15 to 0.19	600	16.7	12	480	288000
		0.20 to 0.35	700	17.8			336000
		0.40 to 1.00	800	19.9			384000
16125	0.31	0.15 to 0.19	1000	20.3	12	480	480000
		0.20 to 0.35	1150	21.3			552000
		0.40 to 1.00	1300	22.7			624000
16150	0.38	0.15 to 0.19	900	21.2	12	480	432000
		0.20 to 0.35	1000	21.1			480000
		0.40 to 1.00	1200	25.6			576000
16200	0.50	0.15 to 0.19	750	19.9	12	480	360000
		0.20 to 0.35	800	19.6			384000
		0.40 to 1.00	850	19.1			408000
16250	0.63	0.15 to 0.19	700	26.5	12	480	336000
		0.20 to 0.35	800	26.9			384000
		0.40 to 1.00	800	26.1			384000
22135	0.34	0.15 to 0.19	750	22.1	12	480	360000
		0.20 to 0.35	800	21.6			384000
		0.40 to 1.00	950	24.5			456000
22150	0.38	0.15 to 0.19	650	21.1	12	480	312000
		0.20 to 0.35	750	22.4			360000
		0.40 to 1.00	850	24.4			408000
22250	0.63	0.15 to 0.19	450	26.6	12	480	216000
		0.20 to 0.35	500	28.0			240000
		0.40 to 1.00	500	27.4			240000
25135	0.34	0.15 to 0.19	550	16.7	12	480	264000
		0.20 to 0.35	700	19.6			336000
		0.40 to 1.00	700	19.2			336000
25150	0.38	0.15 to 0.19	450	15.0	12	480	216000
		0.20 to 0.35	600	18.7			288000
		0.40 to 1.00	600	18.3			288000
25250	0.63	0.15 to 0.19	450	20.9	12	480	216000
		0.20 to 0.35	500	25.0			240000
		0.40 to 1.00	500	24.7			240000

* Calculated weight average.
For further details see "Average Coil Weight Disclaimer".

/ Drippers flow rate vs. working pressure

In order to calculate the right flow rate of each dripper, under different working pressures, we use the following formula:

$$Q = K * P^X$$

Where:

Q = Dripper flow rate (liters/hour)

K = Constant (each dripper has his singular constant and must be defined by the dripper producer)

P = Real working pressure (meter)

X = Exponent (each dripper has its singular exponent and must be declared and defined by the dripper producer)

*ISO 9261 require from the manufacturer to declare the constant K and dripper exponent

In all Netafim pressure compensated drippers - including DripNet PC™ (shown in this document) – the dripper exponent X is equal to 0 [zero] (within the pressure range defined for each of the drippers), so the right flow rate of the dripper will be always equal (+/- 7% as defined by the international standard: ISO 9261).

Each dripper has a compensation range which includes minimum and maximum pressure; under the minimum pressure defined, the dripper will perform as non-regulated dripper and provide flow that increases with the pressure increase until reaching the minimum defined limit working pressure.

If the compensated drippers are exposed to a higher pressure than the defined maximum pressure, the drippers will continue to regulate the flow rate, but become more sensitive to clogging, usually the maximum working pressure of the drippers are determined by the driplines limitations (diameter and wall thickness) and most importantly the pipe and its associated connections.

/ Max. Lateral length

Flow Variation (FV) expresses the flow variation between the dripper “sensing” the highest pressure and the one “sensing” the lowest pressure in an irrigation block (zone).

These drippers will not always be the first and last drippers on the dripline.

$$FV \% = (Q_{max} - Q_{min}) / Q_{max} * 100$$

*International standards define 10% flow variation to be considered as uniform irrigation.

In order to calculate the maximum run lengths that can be planned for specific dripline (considering all the hydraulic factors influencing the flow within the same dripline), we use a calculation software that was developed by Netafim™ based on Darcy-Waisbach formulas + years of design experience and cooperation with academic institutes.

All the tables presented in this document are for initial reference only; the exact run length of the driplines is obtained from design software that considers various hydraulic factors in the entire system.

There might be small variance between the different software's in the market due to the calculation method and assumptions each software is using. For an initial estimate of the dripline length, the data that is presented in this document (within the tables shown) is sufficiently accurate.

As we have already seen, regulated drippers of Netafim™ will provide equal flow irrespective of the working pressure, therefore, the factors that are affecting the dripline run lengths will be: the dripline inlet pressure, the minimum working pressure set for the dripper and the slope.

Max. Lateral length (meter) at different inlet pressure and different slopes

DripNet PC™ AS XR 12125/12150/12200/12250 • ID 11.8 mm • Kd 1.35 • Flow rate 0.6 l/h

	DISTANCE BETWEEN DRIPPERS (METER)									
	INLET PRESSURE (BAR)	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
UPHILL 2%	1.0	77	105	129	148	164	179	191	202	211
	1.5	98	137	170	198	224	246	267	285	302
	2.0	114	159	198	234	266	295	321	345	367
	2.5	126	176	222	262	299	333	364	392	419
FLAT TERRAIN	1.0	86	122	156	188	217	245	272	298	323
	1.5	105	151	192	232	268	303	337	368	399
	2.0	120	171	219	264	306	346	384	420	456
	2.5	131	188	240	290	336	380	422	463	501
DOWNHILL 2%	1.0	94	139	184	228	272	315	358	401	444
	1.5	112	165	216	266	314	362	409	455	501
	2.0	126	184	240	294	347	398	449	499	547
	2.5	137	200	260	318	374	428	482	535	586

Minimum considered pressure 0.4 bar

Max. Lateral length (meter) at different inlet pressure and different slopes

DripNet PC™ AS XR 12125/12150/12200/12250 • ID 11.8 mm • Kd 1.35 • Flow rate 1.0 l/h

	DISTANCE BETWEEN DRIPPERS (METER)									
	INLET PRESSURE (BAR)	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
UPHILL 2%	1.0	57	79	98	114	128	141	153	163	172
	1.5	72	101	126	149	169	188	206	221	236
	2.0	82	116	146	174	199	222	243	263	281
	2.5	91	129	162	194	222	249	273	296	318
FLAT TERRAIN	1.0	61	88	112	135	156	176	196	214	232
	1.5	75	108	138	166	193	218	242	265	287
	2.0	85	122	157	189	220	249	276	302	328
	2.5	94	134	172	208	241	273	303	332	360
DOWNHILL 2%	1.0	65	96	126	156	184	212	240	268	295
	1.5	79	115	150	184	216	248	279	310	340
	2.0	89	129	168	205	241	275	309	342	375
	2.5	97	140	182	222	260	298	334	369	404

Minimum considered pressure 0.4 bar

Max. Lateral length (meter) at different inlet pressure and different slopes

DripNet PC™ AS XR 12125/12150/12200/12250 • ID 11.8 mm • Kd 1.35 • Flow rate 1.6 l/h

	DISTANCE BETWEEN DRIPPERS (METER)									
	INLET PRESSURE (BAR)	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
UPHILL 2%	1.0	43	60	75	88	100	111	121	130	138
	1.5	53	75	95	113	130	144	158	172	184
	2.0	61	87	110	131	151	169	186	202	217
	2.5	67	96	122	146	167	188	207	225	243
FLAT TERRAIN	1.0	45	65	82	99	115	130	145	158	171
	1.5	55	79	102	123	142	160	178	195	212
	2.0	63	90	116	139	161	183	203	223	242
	2.5	69	99	127	153	178	201	224	246	266
DOWNHILL 2%	1.0	47	69	90	111	130	150	169	187	206
	1.5	57	83	108	132	155	177	198	220	241
	2.0	64	94	121	148	173	197	222	245	268
	2.5	70	102	132	161	188	215	240	266	290

Minimum considered pressure 0.4 bar

Max. Lateral length (meter) at different inlet pressure and different slopes

DripNet PC™ AS XR 12125/12150/12200/12250 • ID 11.8 mm • Kd 1.35 • Flow rate 2.0 l/h

	DISTANCE BETWEEN DRIPPERS (METER)									
	INLET PRESSURE (BAR)	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
UPHILL 2%	1.0	37	52	66	78	88	98	107	116	123
	1.5	46	66	83	99	113	127	139	151	163
	2.0	53	75	96	114	131	148	162	177	190
	2.5	58	83	106	127	146	164	182	197	213
	3.0	63	90	114	137	158	179	197	215	232
FLAT TERRAIN	1.0	39	56	71	86	100	113	125	137	149
	1.5	48	68	88	106	123	139	154	169	184
	2.0	54	78	100	121	140	158	176	194	209
	2.5	59	86	110	133	154	174	194	212	230
	3.0	64	92	118	143	166	188	209	229	248
DOWNHILL 2%	1.0	41	59	77	95	111	127	143	159	174
	1.5	49	71	92	113	133	151	170	187	205
	2.0	55	80	104	127	148	169	190	210	229
	2.5	61	88	114	138	161	184	206	228	248
	3.0	65	94	122	148	173	197	220	243	265

Minimum considered pressure 0.4 bar. Max. working pressure according the dripline wall thickness definition

Max. Lateral length (meter) at different inlet pressure and different slopes

DripNet PC™ AS XR 12125/12150/12200/12250 • ID 11.8 mm • Kd 1.35 • Flow rate 3.0 l/h

	DISTANCE BETWEEN DRIPPERS (METER)									
	INLET PRESSURE (BAR)	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
UPHILL 2%	1.0	29	41	51	61	70	78	86	93	100
	1.5	36	51	64	77	89	100	110	120	129
	2.0	41	58	74	89	103	116	127	140	150
	2.5	45	64	82	98	113	128	142	155	167
	3.0	48	69	88	106	123	139	154	167	181
FLAT TERRAIN	1.0	30	43	55	66	77	87	96	105	114
	1.5	37	53	67	82	94	107	119	131	141
	2.0	42	60	77	93	107	122	135	149	161
	2.5	46	65	84	102	118	134	149	164	177
	3.0	49	71	90	110	127	144	161	176	191
DOWNHILL 2%	1.0	31	45	58	71	83	95	107	119	130
	1.5	37	54	70	86	100	114	128	141	154
	2.0	42	61	79	96	113	128	143	158	173
	2.5	46	67	86	105	123	140	156	172	188
	3.0	50	72	93	113	131	150	167	185	201

Minimum considered pressure 0.4 bar. Max. working pressure according the dripline wall thickness definition

Max. Lateral length (meter) at different inlet pressure and different slopes

DripNet PC™ AS XR 12125/12150/12200/12250 • ID 11.8 mm • Kd 1.35 • Flow rate 3.8 l/h

	DISTANCE BETWEEN DRIPPERS (METER)									
	INLET PRESSURE (BAR)	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
UPHILL 2%	1.0	26	38	50	61	71	81	90	100	110
	1.5	32	46	60	73	85	97	109	120	131
	2.0	36	52	68	82	96	109	122	135	147
	2.5	39	57	74	90	105	119	134	147	160
	3.0	42	61	79	96	112	128	142	158	171
FLAT TERRAIN	1.0	26	37	47	57	66	74	82	91	98
	1.5	31	45	58	70	81	92	102	112	122
	2.0	36	51	66	80	92	104	116	128	138
	2.5	39	56	72	87	101	115	128	140	152
	3.0	42	60	78	94	109	124	138	151	164
DOWNHILL 2%	1.0	26	38	50	61	71	81	90	100	110
	1.5	32	46	60	73	85	97	109	120	131
	2.0	36	52	68	82	96	109	122	135	147
	2.5	39	57	74	90	105	119	134	147	160
	3.0	42	61	79	96	112	128	142	158	171

Minimum considered pressure 0.4 bar. Max. working pressure according the dripline wall thickness definition

Max. Lateral length (meter) at different inlet pressure and different slopes

DripNet PC™ AS XR 16125/16150 • ID 16.2 mm • Kd 0.4 • Flow rate 0.6 l/h

	DISTANCE BETWEEN DRIPPERS (METER)									
	INLET PRESSURE (BAR)	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
UPHILL 2%	1.0	141	178	204	223	237	248	256	263	268
	1.4	180	234	276	308	334	356	374	389	401
	1.8	209	275	329	373	409	440	466	488	508
	2.2	232	309	372	425	469	508	542	571	597
FLAT TERRAIN	1.0	176	244	305	361	413	461	508	552	594
	1.4	210	292	365	432	494	553	609	662	713
	1.8	236	328	411	487	557	624	686	746	804
	2.2	257	358	449	532	609	682	750	816	879
DOWNHILL 2%	1.0	211	313	414	513	612	706	791	875	957
	1.4	240	351	459	564	668	767	858	947	1034
	1.8	263	382	496	607	715	818	914	1008	1100
	2.2	283	408	528	643	755	863	963	1061	1157

Minimum considered pressure 0.4 bar. Max. working pressure according the dripline wall thickness definition
Due to lateral filling time and flushing effectiveness it is not recommended to exceed 800 meters lateral length

Max. Lateral length (meter) at different inlet pressure and different slopes

DripNet PC™ AS XR 16125/16150 • ID 16.2 mm • Kd 0.4 • Flow rate 1.0 l/h

	DISTANCE BETWEEN DRIPPERS (METER)									
	INLET PRESSURE (BAR)	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
UPHILL 2%	1.0	108	140	166	185	201	214	225	233	241
	1.4	135	179	215	245	271	292	310	327	341
	1.8	155	208	252	290	322	351	376	399	419
	2.2	171	232	282	326	365	399	430	457	482
FLAT TERRAIN	1.0	126	175	219	260	297	333	366	398	428
	1.4	150	209	262	311	356	398	438	477	514
	1.8	169	236	295	350	401	449	494	537	579
	2.2	184	257	322	382	438	491	540	588	633
DOWNHILL 2%	1.0	144	211	276	339	401	463	523	584	644
	1.4	166	240	311	379	446	511	576	639	702
	1.8	183	263	339	412	482	552	619	685	751
	2.2	197	283	363	440	514	586	656	725	793

Minimum considered pressure 0.4 bar. Max. working pressure according the dripline wall thickness definition

Max. Lateral length (meter) at different inlet pressure and different slopes

DripNet PC™ AS XR 16125/16150 • ID 16.2 mm • Kd 0.4 • Flow rate 1.6 l/h

	DISTANCE BETWEEN DRIPPERS (METER)									
	INLET PRESSURE (BAR)	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
UPHILL 2%	1.0	83	110	132	150	166	179	190	200	208
	1.4	102	138	168	193	215	235	253	268	283
	1.8	117	159	194	226	253	277	300	320	339
	2.2	129	176	216	252	283	312	338	362	384
FLAT TERRAIN	1.0	93	129	162	192	220	246	270	294	317
	1.4	111	154	194	230	263	294	324	353	380
	1.8	124	173	218	258	296	332	366	398	428
	2.2	136	189	238	282	323	363	399	435	468
DOWNHILL 2%	1.0	103	149	192	235	277	317	357	397	436
	1.4	119	171	220	267	312	356	399	442	483
	1.8	132	188	242	292	340	388	434	478	522
	2.2	143	203	260	314	365	414	462	509	556

Minimum considered pressure 0.4 bar. Max. working pressure according the dripline wall thickness definition

Max. Lateral length (meter) at different inlet pressure and different slopes

DripNet PC™ AS XR 16125/16150 • ID 16.2 mm • Kd 0.4 • Flow rate 2.0 l/h

	DISTANCE BETWEEN DRIPPERS (METER)									
	INLET PRESSURE (BAR)	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
UPHILL 2%	1.0	73	98	118	135	149	162	173	183	192
	1.4	89	121	148	172	192	210	226	242	256
	1.8	102	139	171	199	224	246	267	286	303
	2.2	112	153	189	221	250	276	300	322	342
FLAT TERRAIN	1.0	80	112	140	166	190	213	234	255	275
	1.4	96	134	168	199	227	255	281	306	329
	1.8	107	150	188	224	256	287	317	345	371
	2.2	117	164	206	244	280	314	346	376	406
DOWNHILL 2%	1.0	88	126	163	199	233	267	299	332	364
	1.4	102	146	187	227	265	301	337	373	407
	1.8	113	161	206	249	290	329	367	405	442
	2.2	122	174	222	268	311	353	394	433	472

Minimum considered pressure 0.4 bar. Max. working pressure according the dripline wall thickness definition

Max. Lateral length (meter) at different inlet pressure and different slopes

DripNet PC™ AS XR 16125/16150 • ID 16.2 mm • Kd 0.4 • Flow rate 3.0 l/h

	DISTANCE BETWEEN DRIPPERS (METER)									
	INLET PRESSURE (BAR)	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
UPHILL 2%	1.0	57	77	94	109	122	133	143	153	161
	1.4	70	95	117	137	154	169	184	197	210
	1.8	79	109	134	158	178	197	214	230	246
	2.2	87	120	148	175	197	219	239	257	275
FLAT TERRAIN	1.0	62	86	108	128	146	164	181	196	212
	1.4	73	103	129	153	175	197	217	236	254
	1.8	82	115	145	172	197	221	244	266	286
	2.2	90	126	158	188	216	242	266	291	313
DOWNHILL 2%	1.0	66	95	121	147	172	196	219	242	265
	1.4	77	110	140	170	197	224	250	275	300
	1.8	86	122	155	187	217	246	274	302	328
	2.2	93	132	168	202	234	265	294	324	352

Minimum considered pressure 0.4 bar. Max. working pressure according the dripline wall thickness definition

Max. Lateral length (meter) at different inlet pressure and different slopes

DripNet PC™ AS XR 16125/16150 • ID 16.2 mm • Kd 0.4 • Flow rate 3.8 l/h

	DISTANCE BETWEEN DRIPPERS (METER)									
	INLET PRESSURE (BAR)	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
UPHILL 2%	1.0	50	68	83	96	107	118	128	137	144
	1.4	60	83	102	120	135	149	162	174	185
	1.8	68	94	117	137	155	172	188	203	216
	2.2	75	104	129	152	172	191	209	225	241
FLAT TERRAIN	1.0	53	74	92	110	126	141	155	169	182
	1.4	63	88	110	132	151	169	186	203	218
	1.8	71	99	124	148	170	190	210	228	246
	2.2	77	108	136	162	185	208	229	249	269
DOWNHILL 2%	1.0	56	80	102	124	145	165	184	203	221
	1.4	66	93	119	144	167	189	210	231	252
	1.8	73	104	132	159	184	209	232	255	277
	2.2	79	113	143	172	199	225	250	274	298

Minimum considered pressure 0.4 bar. Max. working pressure according the dripline wall thickness definition

Max. Lateral length (meter) at different inlet pressure and different slopes

DripNet PC™ AS XR 16200/16250 • ID 15.5 mm • Kd 0.4 • Flow rate 0.6 l/h

	DISTANCE BETWEEN DRIPPERS (METER)									
	INLET PRESSURE (BAR)	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
UPHILL 2%	1.0	134	170	196	215	230	241	250	257	263
	1.6	184	242	288	326	357	383	405	424	441
	2.2	218	292	352	402	445	483	516	545	571
	2.8	246	330	401	462	515	561	603	641	675
FLAT TERRAIN	1.0	164	228	284	336	384	429	472	513	552
	1.6	209	290	363	430	491	550	604	657	707
	2.2	241	335	418	496	567	634	698	759	817
	2.8	266	370	463	549	628	703	774	841	906
DOWNHILL 2%	1.0	196	288	379	469	557	645	726	802	877
	1.6	234	339	440	538	634	728	816	899	981
	2.2	263	378	487	592	694	794	887	977	1064
	2.8	286	410	526	638	745	850	948	1042	1134

Minimum considered pressure 0.4 bar. Max. working pressure according the dripline wall thickness definition
Due to lateral filling time and flushing effectiveness it is not recommended to exceed 800 meters lateral length

Max. Lateral length (meter) at different inlet pressure and different slopes

DripNet PC™ AS XR 16200/16250 • ID 15.5 mm • Kd 0.4 • Flow rate 1.0 l/h

	DISTANCE BETWEEN DRIPPERS (METER)									
	INLET PRESSURE (BAR)	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
UPHILL 2%	1.0	102	133	157	177	193	205	216	226	233
	1.6	137	183	222	254	282	307	329	347	365
	2.2	161	218	266	308	344	377	406	433	457
	2.8	180	245	300	349	392	432	467	500	530
FLAT TERRAIN	1.0	118	164	204	242	277	309	340	370	398
	1.6	150	208	261	309	353	396	435	473	510
	2.2	172	240	300	356	408	456	502	546	589
	2.8	190	265	332	394	452	505	557	606	653
DOWNHILL 2%	1.0	134	195	253	311	367	422	477	531	585
	1.6	163	234	301	365	427	489	548	607	665
	2.2	184	262	336	406	474	539	603	666	727
	2.8	201	286	365	440	512	582	650	716	780

Minimum considered pressure 0.4 bar. Max. working pressure according the dripline wall thickness definition

Max. Lateral length (meter) at different inlet pressure and different slopes

DripNet PC™ AS XR 16200/16250 • ID 15.5 mm • Kd 0.4 • Flow rate 1.6 l/h

	DISTANCE BETWEEN DRIPPERS (METER)									
	INLET PRESSURE (BAR)	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
UPHILL 2%	1.0	78	104	125	143	157	170	182	191	200
	1.6	103	140	171	198	222	243	262	280	296
	2.2	121	165	203	236	266	293	318	341	363
	2.8	134	185	228	267	301	333	362	390	415
FLAT TERRAIN	1.0	87	121	151	179	205	229	251	274	295
	1.6	110	154	192	228	261	292	322	350	377
	2.2	127	177	222	263	301	337	372	404	436
	2.8	140	196	245	291	334	374	411	448	483
DOWNHILL 2%	1.0	95	137	178	216	254	291	326	363	398
	1.6	117	167	214	259	301	343	383	423	462
	2.2	133	189	241	290	337	382	426	469	511
	2.8	146	207	263	316	367	415	462	508	552

Minimum considered pressure 0.4 bar. Max. working pressure according the dripline wall thickness definition

Max. Lateral length (meter) at different inlet pressure and different slopes

DripNet PC™ AS XR 16200/16250 • ID 15.5 mm • Kd 0.4 • Flow rate 2.0 l/h

	DISTANCE BETWEEN DRIPPERS (METER)									
	INLET PRESSURE (BAR)	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
UPHILL 2%	1.0	69	92	111	128	142	154	165	175	183
	1.6	90	123	150	175	197	216	234	250	266
	2.2	105	144	178	208	235	259	282	303	322
	2.8	117	161	199	234	265	293	319	344	367
FLAT TERRAIN	1.0	75	104	130	155	177	198	218	237	255
	1.6	95	133	166	198	226	253	279	303	327
	2.2	110	153	192	228	261	293	322	350	377
	2.8	121	169	212	252	289	323	357	388	418
DOWNHILL 2%	1.0	81	117	150	183	214	244	274	304	333
	1.6	101	143	183	221	256	291	325	358	391
	2.2	114	162	206	248	288	326	363	399	434
	2.8	125	177	226	271	314	355	394	433	470

Minimum considered pressure 0.4 bar. Max. working pressure according the dripline wall thickness definition

Max. Lateral length (meter) at different inlet pressure and different slopes

DripNet PC™ AS XR 16200/16250 • ID 15.5 mm • Kd 0.4 • Flow rate 3.0 l/h

	DISTANCE BETWEEN DRIPPERS (METER)									
	INLET PRESSURE (BAR)	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
UPHILL 2%	1.0	54	73	89	103	115	126	136	145	153
	1.6	70	96	118	139	157	173	188	203	215
	2.2	81	112	139	164	185	206	224	242	258
	2.8	90	125	156	183	208	231	253	273	292
FLAT TERRAIN	1.0	58	80	100	119	136	153	168	183	197
	1.6	73	102	128	152	174	195	215	234	252
	2.2	84	118	148	175	201	225	248	270	291
	2.8	93	130	163	194	223	249	274	299	322
DOWNHILL 2%	1.0	61	88	112	136	158	181	202	222	243
	1.6	76	108	138	166	192	218	242	266	290
	2.2	87	123	156	188	217	245	273	299	325
	2.8	95	135	171	205	237	267	297	326	353

Minimum considered pressure 0.4 bar. Max. working pressure according the dripline wall thickness definition

Max. Lateral length (meter) at different inlet pressure and different slopes

DripNet PC™ AS XR 16200/16250 • ID 15.5 mm • Kd 0.4 • Flow rate 3.8 l/h

	DISTANCE BETWEEN DRIPPERS (METER)									
	INLET PRESSURE (BAR)	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
UPHILL 2%	1.0	47	63	78	90	101	111	121	129	137
	1.6	60	83	103	121	137	151	165	177	189
	2.2	70	97	120	142	161	179	195	212	226
	2.8	78	108	134	159	181	201	220	238	255
FLAT TERRAIN	1.0	49	69	86	103	117	131	145	158	169
	1.6	63	88	110	131	149	167	185	201	217
	2.2	72	101	127	151	173	193	213	232	250
	2.8	80	111	140	167	191	214	236	257	277
DOWNHILL 2%	1.0	52	74	95	115	133	151	170	186	203
	1.6	65	92	117	141	163	184	205	225	245
	2.2	74	105	133	160	184	208	231	254	275
	2.8	81	115	146	175	202	228	253	276	300

Minimum considered pressure 0.4 bar. Max. working pressure according the dripline wall thickness definition

Max. Lateral length (meter) at different inlet pressure and different slopes

DripNet PC™ AS XR 22135/22150/22250 • ID 22.2 mm • Kd 0.18 • Flow rate 0.6 l/h

	DISTANCE BETWEEN DRIPPERS (METER)									
	INLET PRESSURE (BAR)	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
UPHILL 2%	1.0	211	244	262	273	280	285	288	290	292
	1.5	303	370	414	445	466	482	494	502	510
	2.0	368	462	529	578	616	645	668	687	701
	2.5	420	535	622	688	741	783	818	846	870
FLAT TERRAIN	1.0	324	443	548	644	733	816	895	970	1043
	1.5	400	548	679	799	910	1014	1112	1206	1296
	2.0	456	625	775	913	1039	1159	1271	1379	1482
	2.5	501	688	854	1005	1145	1277	1402	1520	1634
DOWNHILL 2%	1.0	445	669	864	1052	1235	1414	1590	1762	1932
	1.5	502	740	950	1153	1349	1539	1726	1909	2088
	2.0	547	797	1022	1236	1442	1642	1838	2030	2217
	2.5	585	847	1083	1307	1522	1731	1935	2134	2329

Minimum considered pressure 0.4 bar. Max. working pressure according the dripline wall thickness definition
Due to lateral filling time and flushing effectiveness it is not recommended to exceed 800 meters lateral length

Max. Lateral length (meter) at different inlet pressure and different slopes

DripNet PC™ AS XR 22135/22150/22250 • ID 22.2 mm • Kd 0.18 • Flow rate 1.0 l/h

	DISTANCE BETWEEN DRIPPERS (METER)									
	INLET PRESSURE (BAR)	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
UPHILL 2%	1.0	172	209	232	249	259	267	274	278	281
	1.5	236	299	345	380	406	428	445	458	470
	2.0	281	363	426	476	517	551	579	603	623
	2.5	317	414	491	554	607	651	690	723	751
FLAT TERRAIN	1.0	232	318	394	464	527	588	645	699	752
	1.5	287	394	488	575	655	730	802	869	934
	2.0	327	449	558	657	748	834	916	994	1069
	2.5	360	494	614	723	824	920	1010	1095	1178
DOWNHILL 2%	1.0	295	436	576	710	829	946	1059	1171	1281
	1.5	339	493	642	785	914	1039	1162	1281	1398
	2.0	374	538	696	846	983	1116	1245	1371	1494
	2.5	403	577	742	898	1043	1182	1317	1449	1577

Minimum considered pressure 0.4 bar. Max. working pressure according the dripline wall thickness definition
Due to lateral filling time and flushing effectiveness it is not recommended to exceed 800 meters lateral length

Max. Lateral length (meter) at different inlet pressure and different slopes

DripNet PC™ AS XR 22135/22150/22250 • ID 22.2 mm • Kd 0.18 • Flow rate 1.6 l/h

	DISTANCE BETWEEN DRIPPERS (METER)									
	INLET PRESSURE (BAR)	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
UPHILL 2%	1.0	138	173	198	217	231	242	251	257	263
	1.5	184	238	280	315	343	365	386	402	417
	2.0	216	284	339	385	423	456	486	511	534
	2.5	242	321	386	441	488	529	566	599	629
FLAT TERRAIN	1.0	171	235	291	343	390	435	478	518	557
	1.5	211	290	361	425	484	540	593	644	691
	2.0	241	331	412	485	553	617	678	735	791
	2.5	265	365	453	534	610	680	746	810	872
DOWNHILL 2%	1.0	205	299	391	481	570	658	738	813	887
	1.5	240	345	445	542	637	729	814	896	976
	2.0	266	380	487	590	690	788	878	965	1050
	2.5	288	409	523	631	736	838	933	1024	1113

Minimum considered pressure 0.4 bar. Max. working pressure according the dripline wall thickness definition
Due to lateral filling time and flushing effectiveness it is not recommended to exceed 800 meters lateral length

Max. Lateral length (meter) at different inlet pressure and different slopes

DripNet PC™ AS XR 22135/22150/22250 • ID 22.2 mm • Kd 0.18 • Flow rate 2.0 l/h

	DISTANCE BETWEEN DRIPPERS (METER)									
	INLET PRESSURE (BAR)	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
UPHILL 2%	1.0	123	157	182	201	215	228	237	245	252
	1.5	162	212	252	284	311	335	355	373	388
	2.0	190	251	302	344	381	413	441	466	489
	2.5	212	283	342	392	436	475	510	542	571
FLAT TERRAIN	1.0	148	203	252	297	338	377	414	449	482
	1.5	183	251	312	368	419	468	514	557	599
	2.0	208	287	356	420	479	535	587	637	685
	2.5	229	316	392	463	528	589	647	702	755
DOWNHILL 2%	1.0	174	252	327	401	473	545	616	686	748
	1.5	204	292	375	456	534	610	686	760	826
	2.0	227	323	413	499	582	663	742	819	890
	2.5	247	349	444	536	623	708	790	871	946

Minimum considered pressure 0.4 bar. Max. working pressure according the dripline wall thickness definition
Due to lateral filling time and flushing effectiveness it is not recommended to exceed 800 meters lateral length

Max. Lateral length (meter) at different inlet pressure and different slopes

DripNet PC™ AS XR 22135/22150/22250 • ID 22.2 mm • Kd 0.18 • Flow rate 3.0 l/h

	DISTANCE BETWEEN DRIPPERS (METER)									
	INLET PRESSURE (BAR)	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
UPHILL 2%	1.0	99	128	152	170	185	198	209	218	226
	1.5	128	170	204	233	258	280	299	317	332
	2.0	149	200	242	278	310	339	365	388	409
	2.5	166	223	272	314	352	386	417	445	471
FLAT TERRAIN	1.0	114	156	194	229	260	291	319	347	372
	1.5	140	193	240	284	323	361	396	430	462
	2.0	160	221	274	324	369	412	453	491	529
	2.5	176	243	302	357	407	454	499	542	583
DOWNHILL 2%	1.0	129	185	238	291	341	391	440	489	537
	1.5	153	217	278	336	391	445	498	551	602
	2.0	171	242	308	370	430	488	545	600	654
	2.5	186	263	333	400	463	524	584	642	699

Minimum considered pressure 0.4 bar. Max. working pressure according the dripline wall thickness definition

Max. Lateral length (meter) at different inlet pressure and different slopes

DripNet PC™ AS XR 22135/22150/22250 • ID 22.2 mm • Kd 0.18 • Flow rate 3.8 l/h

	DISTANCE BETWEEN DRIPPERS (METER)									
	INLET PRESSURE (BAR)	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
UPHILL 2%	1.0	87	113	135	153	167	181	191	201	209
	1.5	111	149	180	206	229	250	268	285	300
	2.0	129	174	212	245	274	300	323	346	365
	2.5	143	194	237	275	309	340	368	393	418
FLAT TERRAIN	1.0	98	134	167	197	224	250	274	298	320
	1.5	120	166	206	244	278	310	340	370	397
	2.0	137	189	236	278	317	354	389	422	454
	2.5	151	208	259	306	349	390	429	465	501
DOWNHILL 2%	1.0	109	155	200	242	283	324	364	403	442
	1.5	130	184	234	282	328	372	416	459	501
	2.0	145	205	260	312	362	410	457	502	547
	2.5	158	223	282	338	391	442	491	540	587

Minimum considered pressure 0.4 bar. Max. working pressure according the dripline wall thickness definition

Max. Lateral length (meter) at different inlet pressure and different slopes

DripNet PC™ AS XR 25135/25150/25250 • ID 25.0 mm • Kd 0.04 • Flow rate 0.6 l/h

	DISTANCE BETWEEN DRIPPERS (METER)									
	INLET PRESSURE (BAR)	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
UPHILL 2%	1.2	302	338	358	370	377	382	386	388	390
	1.4	351	401	430	448	460	468	474	479	482
	1.6	394	457	495	520	538	550	559	566	571
	1.8	432	508	556	588	611	627	640	650	657
	2.0	467	554	611	651	680	701	718	730	740
FLAT TERRAIN	1.2	499	660	801	929	1048	1159	1265	1366	1463
	1.4	541	715	868	1007	1135	1257	1371	1481	1586
	1.6	577	763	926	1075	1213	1342	1465	1581	1694
	1.8	610	806	979	1136	1282	1418	1548	1672	1791
	2.0	640	846	1027	1192	1345	1488	1625	1754	1879
DOWNHILL 2%	1.2	720	1004	1270	1527	1774	2017	2254	2488	2719
	1.4	749	1041	1315	1577	1831	2078	2321	2560	2794
	1.6	775	1075	1355	1624	1883	2135	2382	2625	2864
	1.8	800	1106	1393	1667	1931	2188	2439	2687	2929
	2.0	822	1136	1429	1708	1976	2238	2494	2744	2990

Minimum considered pressure 0.4 bar. Max. working pressure according the dripline wall thickness definition
Due to lateral filling time and flushing effectiveness it is not recommended to exceed 800 meters lateral length

Max. Lateral length (meter) at different inlet pressure and different slopes

DripNet PC™ AS XR 25135/25150/25250 • ID 25.0 mm • Kd 0.04 • Flow rate 1.0 l/h

	DISTANCE BETWEEN DRIPPERS (METER)									
	INLET PRESSURE (BAR)	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
UPHILL 2%	1.2	252	295	322	340	352	361	368	374	377
	1.4	287	341	378	403	421	435	446	454	460
	1.6	318	383	427	460	484	503	518	529	539
	1.8	345	419	472	512	542	566	584	599	612
	2.0	369	452	513	559	595	624	646	666	682
FLAT TERRAIN	1.2	360	476	578	670	756	837	913	986	1056
	1.4	389	515	626	726	819	907	990	1068	1145
	1.6	416	550	668	776	875	968	1057	1141	1222
	1.8	439	581	706	820	925	1023	1118	1207	1292
	2.0	461	610	741	860	970	1074	1172	1266	1356
DOWNHILL 2%	1.2	476	679	858	1025	1186	1343	1496	1647	1795
	1.4	499	707	890	1063	1228	1390	1546	1700	1851
	1.6	519	732	921	1098	1267	1432	1592	1750	1904
	1.8	538	756	949	1130	1303	1471	1635	1796	1953
	2.0	556	778	975	1160	1337	1509	1675	1839	1999

Minimum considered pressure 0.4 bar. Max. working pressure according the dripline wall thickness definition
Due to lateral filling time and flushing effectiveness it is not recommended to exceed 800 meters lateral length

Max. Lateral length (meter) at different inlet pressure and different slopes

DripNet PC™ AS XR 25135/25150/25250 • ID 25.0 mm • Kd 0.04 • Flow rate 1.6 l/h

	DISTANCE BETWEEN DRIPPERS (METER)									
	INLET PRESSURE (BAR)	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
UPHILL 2%	1.2	206	248	279	301	317	330	341	349	356
	1.4	231	283	320	350	372	390	404	417	426
	1.6	253	313	357	392	420	443	462	477	491
	1.8	272	339	390	431	464	491	514	534	550
	2.0	290	363	420	466	503	535	562	585	605
FLAT TERRAIN	1.2	266	352	428	496	560	620	676	731	782
	1.4	288	381	463	538	607	671	733	792	848
	1.6	307	407	494	574	648	718	783	845	906
	1.8	325	430	523	607	685	758	827	894	958
	2.0	341	451	548	637	719	795	869	938	1005
DOWNHILL 2%	1.2	330	464	592	718	827	934	1038	1139	1238
	1.4	348	486	618	747	860	970	1076	1180	1282
	1.6	364	507	642	773	889	1002	1111	1218	1322
	1.8	379	526	664	798	917	1032	1144	1253	1359
	2.0	393	543	685	821	943	1060	1174	1285	1394

Minimum considered pressure 0.4 bar. Max. working pressure according the dripline wall thickness definition
Due to lateral filling time and flushing effectiveness it is not recommended to exceed 800 meters lateral length

Max. Lateral length (meter) at different inlet pressure and different slopes

DripNet PC™ AS XR 25135/25150/25250 • ID 25.0 mm • Kd 0.04 • Flow rate 2.0 l/h

	DISTANCE BETWEEN DRIPPERS (METER)									
	INLET PRESSURE (BAR)	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
UPHILL 2%	1.2	185	226	256	280	298	312	324	333	341
	1.4	206	256	293	322	345	364	380	393	405
	1.6	225	281	324	359	387	411	430	447	462
	1.8	242	304	352	392	425	452	476	497	515
	2.0	257	325	378	422	458	490	518	542	563
FLAT TERRAIN	1.2	230	305	371	430	485	538	586	634	679
	1.4	250	330	402	466	526	582	636	687	736
	1.6	266	353	429	498	562	622	679	734	786
	1.8	281	373	453	526	594	657	718	775	830
	2.0	295	391	475	552	623	690	753	814	871
DOWNHILL 2%	1.2	278	389	495	598	698	789	875	959	1042
	1.4	294	410	518	624	727	820	909	995	1080
	1.6	309	428	540	648	753	848	939	1029	1116
	1.8	322	445	560	670	777	875	968	1059	1149
	2.0	334	460	578	691	800	900	995	1088	1179

Minimum considered pressure 0.4 bar. Max. working pressure according the dripline wall thickness definition
Due to lateral filling time and flushing effectiveness it is not recommended to exceed 800 meters lateral length

Max. Lateral length (meter) at different inlet pressure and different slopes

DripNet PC™ AS XR 25135/25150/25250 • ID 25.0 mm • Kd 0.04 • Flow rate 3.0 l/h

	DISTANCE BETWEEN DRIPPERS (METER)									
	INLET PRESSURE (BAR)	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
UPHILL 2%	1.2	150	188	216	240	258	274	287	299	309
	1.4	166	210	244	272	295	315	332	347	360
	1.6	181	229	268	300	327	350	370	389	405
	1.8	193	246	289	325	355	382	406	427	446
	2.0	205	262	308	347	381	411	438	461	482
FLAT TERRAIN	1.2	178	235	286	332	375	415	453	490	524
	1.4	192	255	310	360	406	449	490	530	568
	1.6	205	272	331	384	434	480	524	566	607
	1.8	217	287	350	406	458	508	554	599	641
	2.0	227	302	367	426	481	533	582	628	673
DOWNHILL 2%	1.2	206	285	360	432	502	571	638	706	766
	1.4	219	302	379	454	526	596	666	734	796
	1.6	230	317	397	474	548	620	690	761	824
	1.8	241	330	413	492	568	641	714	785	850
	2.0	251	343	428	509	586	662	735	807	874

Minimum considered pressure 0.4 bar. Max. working pressure according the dripline wall thickness definition
Due to lateral filling time and flushing effectiveness it is not recommended to exceed 800 meters lateral length

Max. Lateral length (meter) at different inlet pressure and different slopes

DripNet PC™ AS XR 25135/25150/25250 • ID 25.0 mm • Kd 0.04 • Flow rate 3.8 l/h

	DISTANCE BETWEEN DRIPPERS (METER)									
	INLET PRESSURE (BAR)	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
UPHILL 2%	1.2	132	167	194	216	235	251	264	276	287
	1.4	146	185	217	244	266	286	302	318	331
	1.6	158	202	237	268	293	316	336	354	370
	1.8	169	216	255	289	317	343	366	386	404
	2.0	179	230	272	308	339	368	392	415	436
FLAT TERRAIN	1.2	153	202	246	286	322	357	390	420	451
	1.4	165	219	266	310	349	386	422	456	488
	1.6	176	234	284	331	373	413	450	487	522
	1.8	186	247	300	349	394	436	477	515	551
	2.0	195	259	315	366	413	458	500	540	579
DOWNHILL 2%	1.2	173	239	300	360	416	473	527	581	635
	1.4	185	254	318	379	438	496	552	608	662
	1.6	195	267	333	397	457	516	574	631	687
	1.8	204	278	347	413	475	536	594	653	710
	2.0	212	290	360	427	491	553	614	673	731

Minimum considered pressure 0.4 bar. Max. working pressure according the dripline wall thickness definition