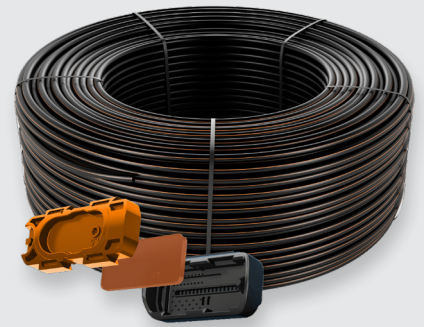


DripNet PC™ AS XR HWD

Compact pressure-compensated dripper with continuous self-flushing, anti-siphon (AS) and enhanced root intrusion protection (XR). Ideal for permanent sub-surface crop applications. Its compact design enables a wide range of dripline configurations while maintaining reliable hydraulic performance, even in complex topographies.



Benefits & Features

Uniform water distribution

Ensures precise, uniform discharge across a broad pressure range, delivering consistent water and nutrient application along the entire dripline length.

Prevents suction (AS)

The integrated anti-siphon (AS) mechanism prevents the suction of contaminants into the dripper, making it especially suitable for sub-surface applications.

Enhanced root intrusion resistance (XR)

Provides active root intrusion protection through a patented root-inhibiting barrier integrated into the dripper cover. Delivers long-term performance through non-migrating active ingredients, reducing reliance on chemical root control methods.

Long-lasting, high clogging resistance

Ensures reliable performance through a self-cleaning labyrinth that continuously flushes debris during operation.

The advanced dripper structure is designed to help reduce the risk of root intrusion into the flow path, ensuring long-term system durability.

A large filtration area reduces the risk of suspended particle ingress, ensuring dependable performance across a wide range of water quality levels.

The TurboNet™ labyrinth features wide, deep flow passages with large cross-sections that enhance clogging resistance. Water is drawn from the center of the flow stream, further minimizing particle ingress.

Applications



Open field



Orchards



Protected crops

- Suitable for sub-surface installation across a wide range of field conditions.
- Delivers uniform hydraulic performance on flat terrain, sloping fields and variable topographies.
- Ideal for precision irrigation in applications where water supply is restricted due to hydraulic limitations or crop requirements, and where there is a potential risk of root intrusion.

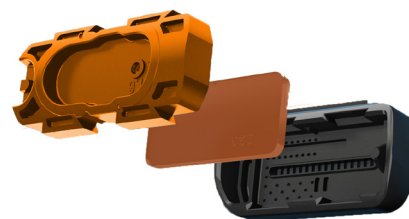


Specifications

- Pressure-compensated operating range as shown in the table below.
- Filtration requirements: Filtration level depends on the dripper flow rate and must be selected according to the type and concentration of particles in the water. When sand content exceeds 2 ppm, a Hydrocyclone must be installed upstream of the main filter. For sand/silt/clay solids above 100 ppm, apply pre-treatment in line with Netafim™ expert guidelines.
- TurboNet™ labyrinth with extra-wide flow passages for enhanced clogging resistance.
- Weldable into thick-wall driplines: 0.90, 1.00 and 1.20 mm.
- Injection-molded dripper with ultra-low coefficient of variation (CV) and an injection-molded silicone diaphragm for exceptional uniformity and long-term performance.
- High UV resistance and fully compatible with standard agricultural nutrients and fertilizers.
- Fully compliant with ISO 9261 international manufacturing and performance standards.
- Driplines are black with two orange stripes.

Drippers technical data

Flow rate* (l/h)	Working pressure range (bar)	Water passages dimensions width-depth-length (mm x mm x mm)	Filtration area (mm ²)	Constant K	Exponent* X	Recommended filtration (micron)/(mesh)
0.60	0.25 - 2.5	0.52 x 0.60 x 22	39	0.6	0	130/120
1.00	0.40 - 3.0	0.61 x 0.60 x 8	39	1.0	0	130/120
1.60	0.40 - 3.0	0.76 x 0.73 x 8	39	1.6	0	200/80
2.00	0.40 - 3.5	0.76 x 0.88 x 8	39	2.0	0	200/80
3.00	0.40 - 3.5	1.02 x 0.88 x 8	39	3.0	0	200/80
3.50	0.60 - 3.5	1.02 x 0.88 x 8	39	3.5	0	200/80
3.80	0.60 - 3.5	1.02 x 0.88 x 8	39	3.8	0	200/80



* Within working pressure range.

Both the K constant and the X exponent are fundamental hydraulic parameters used to calculate the actual flow rate of each dripper at a given operating pressure (within its specified working range), as detailed in the following pages.

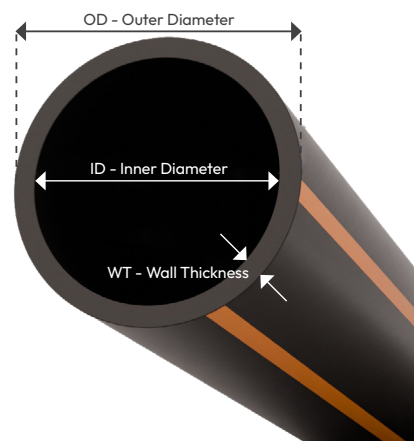
Driplines technical data

Model	Inner diameter (mm)	Wall thickness (mm)	Outer diameter (mm)	Max. working pressure (bar)	Max. flushing pressure (bar)	Kd
12009	10.60	0.9	12.40	2.5/3.0/3.5*	3.9	2.85
12010	10.60	1.0	12.60	2.5/3.0/3.5*	4.6	2.85
16009	14.20	0.9	16.00	2.5/3.0/3.5*	3.9	0.72
16010	14.20	1.0	16.20	2.5/3.0/3.5*	4.6	0.72
16012	14.20	1.2	16.60	2.5/3.0/3.5*	5.2	0.72
20010	17.50	1.0	19.50	2.5/3.0/3.5*	4.6	0.25
20012	17.50	1.2	19.90	2.5/3.0/3.5*	5.2	0.25

* The maximum working pressure is defined by the dripper or by the dripline wall thickness.

Kd: An integral dripper installed inside the dripline creates a localized disturbance in the water flow, generating minor head losses (Kd) as its shape and volume partially obstruct the internal flow path. The lower the Kd value for a given inner diameter, the longer the driplines can be designed under similar operating conditions.

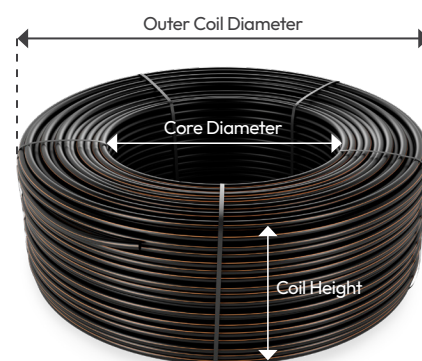
Max. flushing pressure: The maximum permissible flushing pressures shown in the table apply to continuous flushing cycles of up to 30 minutes, with the ends of at least five driplines opened for flushing.



Driplines package data (on bundled coil)

Model	Wall thickness (mm)	Distance between drippers (m)	Coil length (m)	Average* coil weight (kg)	Outer coil diameter (cm)	Core coil diameter (cm)	Coil height (cm)
12009	0.9	0.15 to 1.00	500	16.8	78	41	26
12010	1.0	0.15 to 1.00	500	18.3	78	41	26
16009	0.9	0.15 to 1.00	500	18.5	84	41	27
16010	1.0	0.15 to 1.00	500	20.4	84	41	27
16012	1.2	0.15 to 1.00	400	22.4	78	41	28
20010	1.0	0.15 to 1.00	300	16.8	84	50	27
20012	1.2	0.15 to 1.00	300	20.3	84	50	27

*Values shown are average weights and may vary due to dripper spacing and extrusion tolerances. Refer to the official Netafim™ disclaimers for details.



Driplines package data (on bundled coil) within container

Model	Coil length (m)	Coils in a 40 foot container (units)	Total in a 40 foot container (m)
12009	500	384	192000
12010	500	384	192000
16009	500	330	165000
16010	500	330	165000
16012	400	330	132000
20010	300	330	99000
20012	300	330	99000

A standard 40-foot container has internal dimensions of 12.0 m (L) × 2.35 m (W) × 2.39 m (H). In certain cases, a 40-foot High Cube container may be used, providing an increased internal height of 2.69 m, allowing improved volume utilization depending on product configuration.



Catalog numbers

Because of the wide range of available configurations (different flow rates, emitter spacings, coil lengths and additional specifications), the final catalog number must be confirmed with your local Netafim™ representative after completing the product definition.

Complete the product specification using the options provided in the following flow chart.

How to use: Select one option from each category in the chart to define the most appropriate product configuration for your application.

Product name	Commercial diameter (mm)		Wall thickness (mm)		Flow rate (l/h)		Distance between drippers (m)		Coil length (m)		Special features	
DripNet PC™ AS XR	12	12	0.9	009	0.6	0.6L/H	0.2	0.20M	Model 12009	500M	No added	-
	16	16	1.0	010	1.0	1.0L/H	0.3	0.30M	Model 12010	500M	Other	XXX
	20	20	1.2	012	1.6	1.6L/H	0.4	0.40M	Model 16009	500M	*Other features available upon request. Consult your local Netafim™ distributor.	
					2.0	2.0L/H	0.5	0.50M	Model 16010	500M		
					3.0	3.0L/H	0.6	0.60M	Model 16012	400M		
					3.5	3.5L/H	0.7	0.70M	Model 20010	300M		
					3.8	3.8L/H			Model 20012	300M		

DNPC AS XR 16010 1.6L/H 0.30M 500M

Catalog description example

Drippers flow rate vs working pressure

To determine the actual flow rate of a dripper under different operating pressures, the following equation is applied:

$$Q = K \times P^X$$

Where:

Q = Dripper flow rate (liters per hour)

K = Dripper-specific flow constant (manufacturer-defined)

P = Actual working pressure (meters of water column)

X = Dripper-specific exponent (manufacturer-defined)

In accordance with ISO 9261, manufacturers must declare both the K constant and the X exponent for each dripper model.

In all Netafim™ pressure-compensated drippers, including DripNet PC™ (featured in this document), the dripper exponent X is equal to 0 within the specified pressure-compensation range for each model. This ensures that the actual dripper flow rate remains constant within ±7%, in full compliance with ISO 9261 international standards.

Each pressure-compensated dripper model operates within a defined compensation range, with clearly specified minimum and maximum pressure limits. Below the minimum compensation pressure, the dripper behaves as a non-pressure-compensated emitter and its flow rate increases proportionally with pressure until the minimum operating threshold is reached.

Above the maximum compensation pressure, Netafim™ pressure-compensated drippers will continue to regulate flow; however, they become more susceptible to clogging. In most cases, the maximum operating pressure is determined by the physical limitations of the dripline, such as diameter, wall thickness and most importantly, the structural integrity of the pipe and its associated connections.

DripNet PC™ AS XR flow (l/h) vs pressure (bar)

Dripper	Flow rate* (l/h)	Working pressure (bar)									
		0.10	0.15	0.20	0.25	0.30	0.40	0.50	1.00	2.00	3.00
DripNet PC™ AS XR	0.60	0.39	0.47	0.54	0.60	0.60	0.60	0.60	0.60	0.60	0.60
	1.00	0.51	0.62	0.72	0.80	0.87	1.00	1.00	1.00	1.00	1.00
	1.60	0.82	1.00	1.15	1.28	1.39	1.60	1.60	1.60	1.60	1.60
	2.00	1.03	1.25	1.43	1.60	1.74	2.00	2.00	2.00	2.00	2.00
	3.00	1.54	1.87	2.15	2.39	2.61	3.00	3.00	3.00	3.00	3.00
	3.50	1.48	1.80	2.07	2.30	2.51	2.88	3.21	3.50	3.50	3.50
	3.80	1.61	1.95	2.24	2.50	2.72	3.13	3.48	3.80	3.80	3.80

* Within working pressure range

Maximum driplines length

To determine the maximum feasible run length for a given dripline, considering all hydraulic factors that influence flow within the dripline, Netafim™ uses proprietary design software based on the Darcy-Weisbach equations, supported by decades of engineering expertise and long-standing collaboration with leading academic institutions.

The precise maximum run length for any installation must be calculated using this dedicated design software, which evaluates all relevant hydraulic parameters across the system.

Minor differences may occur between design tools available on the market, due to variations in calculation methodologies and underlying design assumptions.

To calculate the maximum feasible dripline length, taking into account the required variables, such as flow rate and emitter spacing, pipe inner diameter, field slope, inlet pressure and other parameters, Netafim™ HydroCalc design software can be used.



The following tables present the maximum dripline lengths that can be used in driplines to achieve optimal performance.

The values provided here are intended to offer a preliminary reference. The actual maximum dripline length must be calculated by a hydraulic engineer responsible for designing the complete system, in order to account for additional constraints and site-specific limitations.

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

DripNet PC™ AS XR HWD 12009/12010 • ID 10.6 mm • Kd 2.85 • Flow rate 0.60 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	62	87	110	130	148	164	178	192	204
	1.5	75	106	135	162	185	207	228	247	264
	2.0	84	121	154	185	214	240	265	287	309
	2.5	92	133	170	204	236	266	294	320	346
Flat terrain	1.0	66	95	123	150	175	200	223	246	268
	1.5	78	113	147	179	209	239	266	293	320
	2.0	87	127	165	201	235	268	299	330	360
	2.5	95	138	180	219	256	292	326	360	393
Downhill 2%	1.0	69	104	137	171	203	237	270	302	334
	1.5	81	120	158	196	233	270	306	342	377
	2.0	90	133	175	217	257	296	335	374	411
	2.5	98	144	189	233	276	319	359	401	440

Minimum design pressure: 0.25 bar. Maximum working pressure: Determined by the dripper limitations.

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

DripNet PC™ AS XR HWD 12009/12010 • ID 10.6 mm • Kd 2.85 • Flow rate 1.00 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	41	59	74	89	101	113	124	133	143
	1.5	52	74	94	113	131	147	162	176	190
	2.0	59	85	109	131	152	172	190	207	223
	2.5	65	94	120	145	169	190	212	231	250
	3.0	70	101	130	158	183	207	230	252	273
Flat terrain	1.0	43	63	82	100	116	133	148	164	178
	1.5	53	77	100	123	143	164	183	202	220
	2.0	60	88	114	139	163	186	208	230	250
	2.5	66	97	125	153	179	204	229	252	275
	3.0	71	104	135	165	193	220	246	272	296
Downhill 2%	1.0	46	68	89	111	132	153	174	194	215
	1.5	55	81	107	132	156	181	204	227	250
	2.0	62	91	120	148	175	201	227	252	277
	2.5	68	100	130	161	190	218	246	274	300
	3.0	72	107	140	172	202	232	262	292	320

Minimum design pressure: 0.40 bar. Maximum working pressure: Determined by the dripper limitations.

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

DripNet PC™ AS XR HWD 12009/12010 • ID 10.6 mm • Kd 2.85 • Flow rate 1.60 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	31	44	56	67	77	87	96	104	112
	1.5	38	55	70	85	98	111	123	135	146
	2.0	44	63	81	98	114	129	143	157	170
	2.5	48	69	89	108	126	143	159	175	189
	3.0	51	75	96	117	136	155	173	189	206
Flat terrain	1.0	32	47	60	73	86	98	110	121	131
	1.5	39	57	74	90	106	120	134	149	162
	2.0	44	65	84	103	120	137	154	169	184
	2.5	49	71	92	113	132	151	168	185	203
	3.0	52	76	99	121	142	162	182	200	218
Downhill 2%	1.0	33	49	64	80	94	109	123	137	151
	1.5	40	59	77	95	112	130	146	163	179
	2.0	45	66	87	107	126	145	163	182	199
	2.5	49	73	95	117	137	158	178	197	216
	3.0	53	78	102	125	147	169	190	211	231

Minimum design pressure: 0.40 bar. Maximum working pressure: Determined by the dripper limitations.

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

DripNet PC™ AS XR HWD 12009/12010 • ID 10.6 mm • Kd 2.85 • Flow rate 2.00 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	27	38	49	59	68	76	85	92	99
	1.5	33	48	61	74	86	97	108	118	128
	2.0	38	55	70	85	99	113	125	137	149
	2.5	41	60	78	94	110	125	138	152	165
	3.0	45	65	84	102	119	135	150	165	179
	3.5	47	69	89	108	127	144	160	176	192
Flat terrain	1.0	28	40	52	64	74	85	94	104	114
	1.5	34	49	64	78	91	104	117	129	140
	2.0	38	56	72	89	104	118	133	147	160
	2.5	42	61	80	97	114	130	146	161	175
	3.0	45	66	86	105	122	140	157	173	189
	3.5	48	70	91	111	130	148	166	184	201
Downhill 2%	1.0	28	42	55	68	80	93	105	117	129
	1.5	34	51	66	82	97	111	125	139	153
	2.0	39	57	75	92	109	125	140	156	171
	2.5	42	62	82	100	118	136	153	169	185
	3.0	46	67	88	107	127	145	163	181	198
	3.5	48	71	92	114	134	153	173	192	210

Minimum design pressure: 0.40 bar. Maximum working pressure: Determined by the dripper limitations.

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

DripNet PC™ AS XR HWD 12009/12010 • ID 10.6 mm • Kd 2.85 • Flow rate 3.00 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	21	30	38	46	53	60	67	73	79
	1.5	25	37	48	58	67	76	85	93	101
	2.0	29	42	54	66	77	88	98	107	116
	2.5	32	46	60	73	85	97	108	119	129
	3.0	34	50	64	79	92	104	117	129	140
	3.5	36	53	68	84	98	111	124	137	149

Flat terrain	1.0	21	31	40	49	57	65	73	80	88
	1.5	26	38	49	60	70	80	90	99	108
	2.0	29	43	56	68	80	91	102	113	123
	2.5	32	47	61	75	88	100	112	123	135
	3.0	34	50	66	80	94	107	121	133	145
	3.5	37	53	70	85	100	114	128	141	154

Downhill 2%	1.0	22	32	42	52	61	70	79	87	96
	1.5	26	39	50	62	73	84	94	105	115
	2.0	30	44	57	70	82	95	106	118	129
	2.5	32	48	62	77	90	103	116	129	141
	3.0	35	51	67	82	97	111	124	138	151
	3.5	37	54	71	87	102	117	131	146	159

Minimum design pressure: 0.40 bar. Maximum working pressure: Determined by the dripper limitations.

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

DripNet PC™ AS XR HWD 12009/12010 • ID 10.6 mm • Kd 2.85 • Flow rate 3.50 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	16	23	30	36	41	47	52	57	61
	1.5	21	31	40	49	56	64	71	78	85
	2.0	25	36	47	57	67	76	84	93	101
	2.5	28	41	52	64	74	85	94	104	113
	3.0	30	44	57	69	81	92	102	113	123
	3.5	32	47	61	74	86	99	110	122	132

Flat terrain	1.0	17	24	32	39	45	51	58	63	69
	1.5	22	32	41	51	59	68	76	84	91
	2.0	25	37	48	59	69	78	88	97	106
	2.5	28	41	53	65	76	88	98	108	118
	3.0	30	44	58	71	83	95	106	117	128
	3.5	32	47	62	75	88	101	113	125	136

Downhill 2%	1.0	17	25	33	41	49	56	63	70	77
	1.5	22	33	43	53	62	71	80	89	97
	2.0	26	38	49	61	71	82	92	102	112
	2.5	28	42	54	67	79	90	102	113	123
	3.0	31	45	59	72	85	97	109	121	132
	3.5	33	48	62	77	90	104	116	129	141

Minimum design pressure: 0.60 bar. Maximum working pressure: Determined by the dripper limitations.

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

DripNet PC™ AS XR HWD 16009/16010/16012 • ID 14.2 mm • Kd 0.72 • Flow rate 0.60 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	122	161	193	218	239	256	270	282	292
	1.5	151	204	248	286	318	346	370	391	410
	2.0	173	236	290	336	377	412	445	473	499
	2.5	191	262	324	377	425	467	506	540	572
Flat terrain	1.0	139	196	248	296	341	383	423	462	498
	1.5	166	234	296	354	408	459	507	553	597
	2.0	186	263	334	399	459	517	570	623	673
	2.5	203	287	364	435	502	564	624	680	736
Downhill 2%	1.0	157	232	305	378	449	516	580	642	703
	1.5	181	265	346	425	502	574	643	711	777
	2.0	200	291	378	462	544	621	695	768	838
	2.5	216	313	405	494	580	662	740	816	890

Minimum design pressure: 0.25 bar. Maximum working pressure: Determined by the dripper limitations

Due to considerations related to dripline filling time and flushing effectiveness, it is not recommended to exceed a dripline length of 800 meters.

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

DripNet PC™ AS XR HWD 16009/16010/16012 • ID 14.2 mm • Kd 0.72 • Flow rate 1.00 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	111	134	153	169	183	194	205	214
	1.5	106	145	178	207	232	253	274	292	308
	2.0	122	169	209	244	275	304	330	354	375
	2.5	135	188	234	274	311	344	374	403	429
	3.0	147	204	254	300	341	378	413	445	474
Flat terrain	1.0	92	130	165	197	226	255	282	307	331
	1.5	114	161	204	243	280	315	349	381	411
	2.0	129	183	232	277	320	360	398	434	469
	2.5	142	201	255	305	352	396	438	478	517
	3.0	153	216	274	329	379	426	472	516	557
Downhill 2%	1.0	102	150	196	242	287	330	374	418	461
	1.5	122	177	230	281	331	379	426	473	520
	2.0	136	197	255	311	364	417	468	518	567
	2.5	148	214	276	336	393	449	502	555	607
	3.0	159	229	295	358	418	476	533	588	642

Minimum design pressure: 0.40 bar. Maximum working pressure: Determined by the dripper limitations.

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

DripNet PC™ AS XR HWD 16009/16010/16012 • ID 14.2 mm • Kd 0.72 • Flow rate 1.60 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	63	86	105	121	136	148	159	169	178
	1.5	79	110	136	159	180	199	216	231	246
	2.0	91	127	158	187	212	235	256	276	295
	2.5	101	141	176	208	237	264	289	311	333
	3.0	109	152	191	227	259	288	316	342	366
Flat terrain	1.0	68	96	122	145	167	188	208	227	245
	1.5	84	118	150	180	207	232	258	281	304
	2.0	95	135	171	205	236	265	294	320	347
	2.5	104	148	188	225	259	292	323	353	382
	3.0	112	159	202	242	280	315	349	381	412
Downhill 2%	1.0	73	107	138	170	200	230	258	287	316
	1.5	88	127	164	200	234	267	300	332	363
	2.0	99	143	184	223	260	297	332	366	400
	2.5	108	155	199	242	282	321	358	395	431
	3.0	115	166	213	258	301	342	382	420	458

Minimum design pressure: 0.40 bar. Maximum working pressure: Determined by the dripper limitations.

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

DripNet PC™ AS XR HWD 16009/16010/16012 • ID 14.2 mm • Kd 0.72 • Flow rate 2.00 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	55	75	92	108	121	133	143	153	162
	1.5	69	96	119	140	159	176	192	206	220
	2.0	79	110	138	164	186	207	226	244	261
	2.5	87	122	154	182	208	232	254	275	294
	3.0	94	133	167	198	226	253	278	301	322
	3.5	101	141	178	212	242	271	298	323	347
Flat terrain	1.0	59	83	105	126	145	163	180	196	212
	1.5	72	102	130	155	179	202	223	243	263
	2.0	82	116	148	177	204	230	254	278	300
	2.5	90	128	162	195	224	253	280	306	331
	3.0	97	138	175	210	242	272	302	329	356
	3.5	103	146	186	223	257	290	321	351	379
Downhill 2%	1.0	63	91	118	144	169	194	218	242	266
	1.5	75	109	140	171	199	228	255	282	308
	2.0	85	122	157	191	223	253	283	312	340
	2.5	93	133	171	207	241	274	306	338	368
	3.0	99	143	183	221	257	293	326	359	391
	3.5	105	151	194	234	272	309	345	379	412

Minimum design pressure: 0.40 bar. Maximum working pressure: Determined by the dripper or by the dripline wall-thickness limitations.

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

DripNet PC™ AS XR HWD 16009/16010/16012 • ID 14.2 mm • Kd 0.72 • Flow rate 3.00 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	59	73	86	97	107	117	125	133
	1.5	53	75	94	111	126	140	153	166	177
	2.0	61	86	108	128	146	163	179	194	208
	2.5	67	95	120	142	163	182	200	217	233
	3.0	73	103	130	154	177	198	218	237	254
	3.5	78	110	138	165	189	212	234	254	273

Flat terrain	1.0	45	64	81	97	112	125	138	151	164
	1.5	55	79	100	120	138	155	172	187	203
	2.0	63	89	114	136	157	177	196	214	231
	2.5	69	98	125	150	173	195	215	236	255
	3.0	74	106	134	161	186	210	232	254	275
	3.5	79	112	143	171	198	223	247	270	292

Downhill 2%	1.0	47	68	88	108	126	144	162	178	195
	1.5	57	83	106	129	150	171	190	210	229
	2.0	65	93	119	144	168	190	213	234	255
	2.5	71	101	130	157	182	207	231	254	277
	3.0	76	109	139	168	196	222	247	271	295
	3.5	80	115	147	178	206	235	261	287	312

Minimum design pressure: 0.40 bar. Maximum working pressure: Determined by the dripper or by the dripline wall-thickness limitations.

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

DripNet PC™ AS XR HWD 16009/16010/16012 • ID 14.2 mm • Kd 0.72 • Flow rate 3.50 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	33	46	57	66	74	82	89	95	101
	1.5	45	63	79	93	106	118	129	139	149
	2.0	53	74	93	111	127	141	155	168	180
	2.5	59	83	105	125	143	160	175	190	204
	3.0	64	90	114	136	156	175	192	209	225
	3.5	69	97	122	146	167	188	207	225	242

Flat terrain	1.0	35	50	64	76	88	99	109	119	129
	1.5	47	66	84	101	116	131	145	158	171
	2.0	54	77	98	118	136	153	169	185	200
	2.5	60	86	109	131	151	170	188	206	223
	3.0	65	93	118	142	164	185	205	223	242
	3.5	70	99	126	152	175	197	218	239	258

Downhill 2%	1.0	38	54	70	86	101	116	130	144	158
	1.5	48	70	90	109	127	144	162	178	194
	2.0	56	80	103	125	145	165	183	203	220
	2.5	62	89	113	137	159	181	202	221	241
	3.0	67	95	122	148	172	195	217	239	259
	3.5	71	101	130	157	182	207	230	253	275

Minimum design pressure: 0.60 bar. Maximum working pressure: Determined by the dripper or by the dripline wall-thickness limitations.

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

DripNet PC™ AS XR HWD 16009/16010/16012 • ID 14.2 mm • Kd 0.72 • Flow rate 3.80 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	32	44	54	63	71	78	85	91	97
	1.5	43	60	75	89	101	112	123	133	142
	2.0	50	71	89	105	121	134	148	160	172
	2.5	56	79	100	118	136	152	167	181	195
	3.0	61	86	108	129	148	166	183	199	214
	3.5	65	92	116	139	159	179	197	214	231

Flat terrain	1.0	34	47	60	72	83	94	103	113	122
	1.5	44	63	80	96	110	124	138	150	162
	2.0	51	73	93	112	128	145	161	176	190
	2.5	57	81	103	124	143	161	178	195	211
	3.0	62	88	112	135	155	175	194	212	229
	3.5	66	94	120	144	166	187	207	227	245

Downhill 2%	1.0	35	51	66	81	95	109	122	135	148
	1.5	46	66	85	103	119	137	152	167	183
	2.0	53	76	97	118	137	155	174	191	208
	2.5	58	84	107	130	151	171	190	210	228
	3.0	63	90	116	140	162	184	205	225	245
	3.5	67	96	123	149	172	195	218	239	260

Minimum design pressure: 0.60 bar. Maximum working pressure: Determined by the dripper or by the dripline wall-thickness limitations.

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

DripNet PC™ AS XR HWD 20010/20012 • ID 17.5 mm • Kd 0.25 • Flow rate 0.60 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	183	227	259	282	298	312	322	329	336
	1.5	234	300	351	391	422	448	470	487	502
	2.0	272	355	420	473	517	554	586	613	637
	2.5	303	399	476	540	594	641	682	717	749

Flat terrain	1.0	231	316	392	461	525	585	642	697	748
	1.5	276	378	469	553	629	702	770	836	899
	2.0	310	426	529	623	710	792	869	943	1014
	2.5	338	465	578	681	776	866	950	1031	1109

Downhill 2%	1.0	280	410	531	642	749	854	956	1056	1154
	1.5	318	459	590	712	828	941	1050	1157	1262
	2.0	348	499	638	768	892	1012	1128	1241	1352
	2.5	374	533	680	817	947	1072	1194	1313	1429

Minimum design pressure: 0.25 bar. Maximum working pressure: Determined by the dripper limitations

Due to considerations related to dripline filling time and flushing effectiveness, it is not recommended to exceed a dripline length of 800 meters.

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

DripNet PC™ AS XR HWD 20010/20012 • ID 17.5 mm • Kd 0.25 • Flow rate 1.00 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	126	161	185	205	219	231	241	248	255
	1.5	167	218	258	291	319	342	362	379	394
	2.0	195	258	310	353	390	423	451	476	499
	2.5	218	291	351	403	448	487	522	554	584
	3.0	238	319	386	445	496	542	583	621	655
Flat terrain	1.0	153	210	260	307	349	389	427	464	498
	1.5	189	260	323	380	433	483	530	576	619
	2.0	215	296	368	434	495	552	606	658	708
	2.5	237	326	406	478	545	608	668	725	780
	3.0	255	352	437	516	589	657	722	783	842
Downhill 2%	1.0	180	262	340	418	494	568	643	713	777
	1.5	212	303	390	474	555	635	714	788	858
	2.0	236	335	429	518	605	689	772	850	924
	2.5	256	362	461	556	647	735	822	904	981
	3.0	273	385	490	589	683	776	866	950	1032

Minimum design pressure: 0.40 bar. Maximum working pressure: Determined by the dripper limitations.

Due to considerations related to dripline filling time and flushing effectiveness, it is not recommended to exceed a dripline length of 800 meters.

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

DripNet PC™ AS XR HWD 20010/20012 • ID 17.5 mm • Kd 0.25 • Flow rate 1.60 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	98	128	150	169	184	197	208	217	225
	1.5	127	169	203	232	256	278	298	315	330
	2.0	148	198	240	276	308	336	362	385	407
	2.5	164	221	270	312	349	383	414	442	468
	3.0	179	241	295	342	384	422	457	490	519
Flat terrain	1.0	113	155	192	227	258	288	316	343	369
	1.5	139	192	238	281	320	357	393	426	458
	2.0	159	219	272	321	366	408	449	487	524
	2.5	174	241	299	353	403	450	494	536	577
	3.0	188	259	323	381	435	485	534	580	623
Downhill 2%	1.0	128	183	236	288	337	386	435	483	531
	1.5	152	215	275	332	387	440	493	545	595
	2.0	170	240	305	367	426	483	539	594	647
	2.5	185	260	330	396	458	519	578	635	692
	3.0	197	278	351	421	487	550	612	672	731

Minimum design pressure: 0.40 bar. Maximum working pressure: Determined by the dripper limitations.

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

DripNet PC™ AS XR HWD 20010/20012 • ID 17.5 mm • Kd 0.25 • Flow rate 2.00 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	180	191	201	209
	1.5	111	149	180	206	229	250	268	284	300
	2.0	129	174	211	244	274	300	323	345	365
	2.5	143	194	237	275	308	340	367	393	418
	3.0	155	211	258	301	338	373	405	434	462
	3.5	166	226	278	323	365	403	438	470	500

Flat terrain	1.0	98	134	166	196	224	250	274	297	320
	1.5	120	166	206	243	277	309	340	369	397
	2.0	137	189	236	278	317	354	389	422	454
	2.5	151	208	259	306	349	390	428	465	500
	3.0	163	224	280	330	377	421	462	502	540
	3.5	173	239	297	351	401	448	492	535	575

Downhill 2%	1.0	109	155	199	242	283	324	364	403	442
	1.5	130	184	234	282	328	372	416	458	500
	2.0	145	205	260	312	362	410	457	502	547
	2.5	158	223	282	338	391	442	491	539	586
	3.0	170	238	301	360	416	469	522	572	621
	3.5	179	251	318	380	438	494	548	601	652

Minimum design pressure: 0.40 bar. Maximum working pressure: Determined by the dripper limitations.

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

DripNet PC™ AS XR HWD 20010/20012 • ID 17.5 mm • Kd 0.25 • Flow rate 3.00 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	91	109	125	139	151	161	170	179
	1.5	87	117	143	165	185	203	219	234	248
	2.0	101	136	167	194	218	240	261	279	297
	2.5	111	152	186	217	245	270	294	316	336
	3.0	121	164	203	237	268	296	322	347	370
	3.5	129	176	217	254	287	318	346	374	399

Flat terrain	1.0	75	103	128	151	172	193	211	230	247
	1.5	93	128	159	188	214	239	262	284	306
	2.0	105	146	181	214	244	273	300	326	350
	2.5	116	160	200	236	269	300	330	359	386
	3.0	125	173	215	254	290	324	356	387	417
	3.5	133	184	229	271	309	345	379	412	444

Downhill 2%	1.0	81	116	148	179	208	237	265	293	320
	1.5	98	138	175	210	244	276	307	338	368
	2.0	110	155	196	235	271	306	340	374	405
	2.5	120	169	213	255	293	331	367	402	437
	3.0	129	181	228	272	313	353	391	428	464
	3.5	137	191	241	287	331	372	413	452	489

Minimum design pressure: 0.40 bar. Maximum working pressure: Determined by the dripper limitations.

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

DripNet PC™ AS XR HWD 20010/20012 • ID 17.5 mm • Kd 0.25 • Flow rate 3.50 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	53	70	83	95	104	113	120	126	132
	1.5	73	99	120	139	155	170	184	196	207
	2.0	87	118	144	168	189	208	226	242	257
	2.5	98	133	163	190	215	237	258	277	295
	3.0	106	145	179	209	236	262	285	307	327
	3.5	114	156	192	225	255	283	308	332	355
Flat terrain	1.0	59	81	101	119	135	151	166	180	193
	1.5	78	108	134	158	181	202	222	240	258
	2.0	91	126	156	185	211	236	259	281	303
	2.5	101	140	174	206	235	263	289	313	337
	3.0	110	152	189	224	256	286	314	341	367
	3.5	117	162	202	239	273	305	335	365	392
Downhill 2%	1.0	65	92	119	144	168	192	215	238	260
	1.5	83	117	148	178	206	234	260	286	312
	2.0	95	134	169	202	233	264	294	321	350
	2.5	105	147	186	222	256	288	320	351	380
	3.0	113	158	200	239	275	309	343	375	407
	3.5	121	169	212	253	292	328	363	398	430

Minimum design pressure: 0.60 bar. Maximum working pressure: Determined by the dripper limitations.

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

DripNet PC™ AS XR HWD 20010/20012 • ID 17.5 mm • Kd 0.25 • Flow rate 3.80 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	67	80	91	100	109	116	122	128
	1.5	70	94	114	133	149	163	176	188	199
	2.0	83	112	138	160	180	199	215	231	246
	2.5	93	126	155	181	205	226	246	265	282
	3.0	101	138	170	199	225	249	272	293	312
	3.5	108	148	183	215	243	270	294	317	339
Flat terrain	1.0	56	77	96	113	128	144	158	171	184
	1.5	74	102	127	150	171	191	210	228	245
	2.0	86	119	148	176	200	223	246	266	287
	2.5	96	133	165	195	223	249	274	298	320
	3.0	104	144	180	212	242	271	298	323	348
	3.5	111	154	192	227	259	290	318	346	372
Downhill 2%	1.0	61	87	112	135	158	180	202	223	244
	1.5	78	110	140	168	194	220	245	269	293
	2.0	90	126	160	191	221	249	277	303	329
	2.5	99	139	176	210	242	272	302	331	359
	3.0	107	150	189	226	260	293	324	355	384
	3.5	114	160	201	240	275	310	343	375	406

Minimum design pressure: 0.60 bar. Maximum working pressure: Determined by the dripper limitations.