

PCJ™ on-line dripper

Compact pressure-compensated on-line dripper, designed to deliver reliable and uniform irrigation performance across a wide range of applications.

Widely used in greenhouses, nurseries and orchards, it offers a proven and versatile solution for precision irrigation.



Benefits & Features

Uniform water distribution

Ensures precise and stable flow regulation across a wide pressure range, delivering uniform water distribution along irrigation lines and across varying topographies.

Prevents drainage (LCNL or HCNL) (optional)

The LCNL (anti-drain) mechanism prevents drainage from emitters located in low areas, maintaining system pressure and ensuring uniform water distribution.

The HCNL (high anti-drain) mechanism operates at a higher shut-off threshold, preventing drainage even under steep slope conditions.

Improves pulse irrigation performance; eliminates drainage and refill effects, enhancing irrigation efficiency in pulse irrigation applications.

Long-lasting, high clogging resistance

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

A built-in filtration area, uncommon in most on-line drippers, helps reduce the risk of suspended particle ingress, ensuring dependable performance across a wide range of water qualities.

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.

Flexible system design and installation

Emitters can be positioned precisely where required, enabling accurate adaptation to the irrigation layout.

Available with a range of outlet options, including press-fit, straight or angled barbed connections, supporting flexible system design and compatibility with "Spider" assemblies.

Flow rate is color-coded for quick identification, and the nominal flow rate is marked directly on the emitter, simplifying installation and operation.

Applications



Open field



Orchards



Protected crops

- Suitable for on-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 greenhouses, nurseries and orchards.



Specifications

- Pressure-compensated operating range: according to dripper model (see tables below).
- Filtration requirements: A filtration grade of 130 micron / 120 mesh is recommended to ensure long-term operational reliability. 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.
- Insertable into thick-wall PE pipes: 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.
- Compliant with ISO 9261 international manufacturing and performance standards.
- Available outlet configurations: straight or angled 3 mm barbed connection, straight 4 mm barbed connection and press-fit (nipple).
- Anti-Insect (AI) option: Protective outlet cover available factory-assembled or for field installation on PCJ™ drippers equipped with a press-fit (nipple) outlet.

Drippers technical data

PCJ™ AS dripper

Flow rate* (l/h)	Working pressure range (bar)	Water passages dimensions width-depth-length (mm x mm x mm)	Filtration area (mm²)	Constant K	Exponent* X	Recommended filtration (micron)/(mesh)	Base color code	Upper body color code
0.5	0.5 - 4.0	0.54 x 0.60 x 35	2.0	0.5	0	130/120	Mustard	Black
1.2		0.67 x 0.77 x 35	2.0	1.2	0	130/120	Brown	Black
2.0		0.98 x 0.79 x 35	2.0	2.0	0	130/120	Red	Black
3.0		1.03 x 1.07 x 35	2.0	3.0	0	130/120	Blue	Black
4.0		1.32 x 0.92 x 35	2.0	4.0	0	130/120	Gray	Black
8.0		1.60 x 1.08 x 35	2.0	8.0	0	130/120	Green	Black
12.0		1.60 x 1.08 x 17	2.0	12.0	0	130/120	Fuchsia	Black
15.0		1.60 x 1.08 x 17	2.0	15.0	0	130/120	Black	Black

* Within working pressure range.

PCJ™ AS dripper. Is identified by its base color code.

PCJ™ LCNL dripper

Flow rate* (l/h)	Working pressure range (bar)	Water passages dimensions width-depth-length (mm x mm x mm)	Filtration area (mm²)	Constant K	Exponent* X	Recommended filtration (micron)/(mesh)	Base color code	Upper body color code
0.5	0.7 - 4.0	0.54 x 0.60 x 35	1.8	0.5	0	130/120	Mustard	Black
1.2		0.67 x 0.77 x 35	2.0	1.2	0	130/120	Brown	Black
2.0		0.98 x 0.79 x 35	2.0	2.0	0	130/120	Red	Black
3.0		1.03 x 1.07 x 35	2.0	3.0	0	130/120	Blue	Black
4.0		1.32 x 0.92 x 35	2.0	4.0	0	130/120	Gray	Black
8.0		1.60 x 1.08 x 35	2.0	8.0	0	130/120	Green	Black
12.0		1.60 x 1.08 x 17	2.0	12.0	0	130/120	Fuchsia	Black

* Within working pressure range.

PCJ™ LCNL nominal shut-off pressure: 0.12 bar. Is identified by its base color code and by the rings around the barbed water inlet connector.

PCJ™ HCNL dripper

Flow rate* (l/h)	Working pressure range (bar)	Water passages dimensions width-depth-length (mm x mm x mm)	Filtration area (mm²)	Constant K	Exponent* X	Recommended filtration (micron)/(mesh)	Base color code	Upper body color code
0.5	1.5 - 4.0	0.54 x 0.60 x 35	1.8	0.5	0	130/120	Light yellow	Black
1.2		0.67 x 0.77 x 35	2.0	1.2	0	130/120	Light brown	Black
2.0		0.98 x 0.79 x 35	2.0	2.0	0	130/120	Pink	Black
3.0		1.03 x 1.07 x 35	2.0	3.0	0	130/120	Light blue	Black
4.0		1.32 x 0.92 x 35	2.0	4.0	0	130/120	Light gray	Black

* Within working pressure range.

PCJ™ HCNL nominal shut-off pressure: 0.18 bar. Is identified by its base color code and by the rings around the barbed water inlet connector.

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.



Model designed to meet specific needs.

Anti-Insect (AI): Special outlet protector designed to help prevent insect intrusion through the dripper outlet.

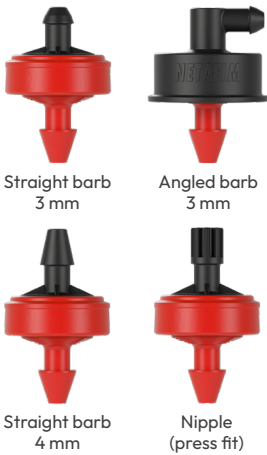
The Anti Insect Cap is designed to protect from insect intruders in fields with high intensity of insects, helping maintain reliable water discharge and reducing maintenance requirements



Kd (minor losses) – insertion barb in the distribution pipe

PE pipe	Inner diameter (mm)	Kd
12/4	9.80	1.65
16/4	13.20	0.39
20/4	17.00	0.13
25/4	21.20	0.10
Blank dripline	Inner diameter (mm)	Kd
12009 - 12010	10.60	1.61
16010 - 16012	14.20	0.37
20010 - 20012	17.50	0.12

Kd: A barbed inlet connector inside the pipe 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.



Drippers package data (on carton box)

Model	Quantity p/box (units)	Box dimensions (cm x cm x cm)	Average* box weight (kg)	Boxes p/pallet (units)	Pallet dimensions (cm x cm x cm)	Average* pallet weight (kg)
PCJ™ drippers (straight barb 3 and 4 mm outlet)	13000	57 x 28 x 27	14.4	32	114 x 114 x 112	470
PCJ™ drippers (nipple outlet)	12000		13.7			448
PCJ™ drippers (angled barb 3 mm outlet)	6500		12.6			414
PCJ™ drippers (AI model)	9500		13.4			438

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



Catalog numbers

Because of the wide range of available configurations (different flow rates 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	Additional features		Flow rate (l/h) PCJ™ AS and PCJ™ LCNL model		Outlet type	Emitters per package		Special features	
PCJ™ dripper	PCJ	No added AS	0.5	0.5L/H	Straight barb 3 mm BRB3	1	-	No added	-
		Anti-drain LCNL	1.2	1.2L/H	Straight barb 4 mm BRB4	25	25/BAG	Anti-insects cap	+CAP
		High anti-drain HCNL	2.0	2.0L/H	Nipple (press-fit) NIP	50	50/BAG		
			3.0	3.0L/H	Angled barb 3 mm BRB3 ANG	100	100/BAG		
			4.0	4.0L/H		250	250/BAG		
			8.0	8.0L/H		500	500/BAG		
			12.0	12.0L/H		1000	1000/BAG		
			15.0*	15.0L/H		According to the dripper model	13000/CA		
							7500/CA		
			*Only available in PCJ™ AS model						
			Flow rate (l/h) PCJ™ HCNL model						
			0.5	0.5L/H					
			1.2	1.2L/H					
			2.0	2.0L/H					
			3.0	3.0L/H					
			4.0	4.0L/H					
PCJ LCNL 2.0L/H BRB3 ANG 500/BAG									

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 PCJ™ dripper (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.

In LCNL and HCNL drippers, the flow rate remains zero until the pressure exceeds the minimum working pressure. As the pressure within the dripline decreases below the minimum working pressure, the flow rate gradually decreases until it reaches the shut-off pressure. When the pressure falls below the shut-off pressure, the flow rate returns to zero.

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

PCJ™ AS drippers • On PE pipe 12/4 • ID 9.8 mm • Kd 1.65 • Flow rate 0.5 l/h

	Distance between drippers (meter)											
	Inlet pressure (bar)	0.2	0.4	0.6	0.8	1.0	2.0	3.0	4.0	5.0	6.0	7.0
Uphill 2%	1.0	60	101	130	151	168	212	228	236	245	246	245
	1.5	79	137	182	218	248	346	396	428	445	462	469
	2.0	92	162	218	264	304	442	525	576	615	642	665
	2.5	102	181	245	300	347	518	627	700	760	798	833
	3.0	111	198	269	330	384	580	711	808	880	936	980
	3.5	118	212	290	357	415	636	786	900	990	1056	1113
	4.0	125	225	308	380	443	684	855	984	1085	1170	1239
Flat terrain	1.0	66	120	167	209	248	408	540	656	765	864	952
	1.5	84	153	213	266	316	524	693	844	980	1104	1225
	2.0	96	176	245	307	365	604	801	976	1130	1278	1414
	2.5	106	194	271	340	403	670	888	1080	1255	1416	1568
	3.0	114	210	293	368	436	724	963	1168	1360	1536	1701
	3.5	122	223	312	392	465	774	1026	1248	1450	1638	1813
	4.0	128	236	329	414	491	816	1083	1320	1535	1734	1918
Downhill 2%	1.0	72	140	206	270	334	642	927	1176	1415	1650	1876
	1.5	89	169	244	317	387	718	1017	1284	1540	1788	2030
	2.0	100	190	273	352	427	778	1095	1376	1645	1902	2156
	2.5	110	207	296	381	461	830	1158	1456	1735	2004	2268
	3.0	118	222	317	406	490	876	1218	1524	1815	2094	2366
	3.5	125	235	335	428	516	916	1269	1588	1885	2172	2450
	4.0	132	246	351	448	540	954	1317	1644	1955	2250	2534

Minimum considered pressure 0.5 bar

Due to lateral filling time and flushing effectiveness it is not recommended to exceed 800 meters lateral length

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

PCJ™ AS drippers • On PE pipe 12/4 • ID 9.8 mm • Kd 1.65 • Flow rate 1.20 l/h

	Distance between drippers (meter)											
	Inlet pressure (bar)	0.2	0.4	0.6	0.8	1.0	2.0	3.0	4.0	5.0	6.0	7.0
Uphill 2%	1.0	35	62	83	100	114	162	189	208	220	228	231
	1.5	46	81	110	136	158	238	291	332	360	384	399
	2.0	53	95	130	161	187	290	363	420	460	498	525
	2.5	58	106	145	180	211	332	420	488	545	594	630
	3.0	63	114	158	197	231	366	465	544	615	672	721
	3.5	67	122	169	211	248	396	507	596	670	738	798
	4.0	71	130	179	224	264	422	543	640	725	798	861

Flat terrain	1.0	37	68	95	119	141	234	309	376	440	492	546
	1.5	47	86	121	151	180	298	396	484	560	636	700
	2.0	54	99	139	174	207	346	459	556	650	732	812
	2.5	60	110	154	193	229	382	507	616	720	810	896
	3.0	64	118	166	209	248	414	549	668	780	876	973
	3.5	69	126	176	222	264	442	585	716	830	936	1036
	4.0	72	133	187	234	279	466	621	756	875	990	1099

Downhill 2%	1.0	39	74	107	138	169	312	447	576	705	828	938
	1.5	49	92	131	167	203	362	510	648	785	918	1036
	2.0	55	104	148	189	227	402	558	708	850	984	1113
	2.5	61	114	161	206	248	434	600	756	905	1044	1176
	3.0	66	122	173	221	265	462	636	796	950	1098	1232
	3.5	70	130	184	234	281	488	669	836	995	1146	1288
	4.0	73	136	193	246	295	510	699	872	1035	1194	1337

Minimum considered pressure 0.5 bar

Due to lateral filling time and flushing effectiveness it is not recommended to exceed 800 meters lateral length

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

PCJ™ AS drippers • On PE pipe 12/4 • ID 9.8 mm • Kd 1.65 • Flow rate 2.0 l/h

	Distance between drippers (meter)											
	Inlet pressure (bar)	0.2	0.4	0.6	0.8	1.0	2.0	3.0	4.0	5.0	6.0	7.0
Uphill 2%	1.0	26	46	62	75	88	130	159	176	190	204	210
	1.5	33	59	82	101	118	184	231	268	295	318	343
	2.0	38	69	95	118	139	220	282	328	370	402	434
	2.5	42	76	106	132	156	250	321	376	425	468	504
	3.0	45	83	115	144	170	274	354	420	475	522	567
	3.5	48	88	123	154	182	294	381	456	515	570	623
	4.0	51	94	130	163	193	314	408	484	555	612	672

Flat terrain	1.0	27	49	68	86	102	168	225	272	315	360	399
	1.5	34	62	86	109	129	216	288	348	405	456	511
	2.0	39	71	100	126	149	248	330	404	470	528	588
	2.5	43	79	110	138	165	276	366	448	520	588	651
	3.0	46	85	119	150	178	298	396	484	560	636	707
	3.5	49	90	127	160	190	318	423	516	600	678	749
	4.0	52	95	134	169	201	336	447	544	635	714	791

Downhill 2%	1.0	28	52	74	96	116	210	294	380	460	540	616
	1.5	35	64	92	118	141	248	345	436	525	606	693
	2.0	39	74	104	133	160	278	384	480	575	666	749
	2.5	43	81	115	146	175	302	414	516	615	708	805
	3.0	47	87	123	156	187	324	441	552	655	750	847
	3.5	50	92	131	166	199	342	465	580	685	786	889
	4.0	52	97	137	174	209	358	489	604	715	822	924

Minimum considered pressure 0.5 bar

Due to lateral filling time and flushing effectiveness it is not recommended to exceed 800 meters lateral length

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

PCJ™ AS drippers • On PE pipe 12/4 • ID 9.8 mm • Kd 1.65 • Flow rate 3.0 l/h

	Distance between drippers (meter)											
	Inlet pressure (bar)	0.2	0.4	0.6	0.8	1.0	2.0	3.0	4.0	5.0	6.0	7.0
Uphill 2%	1.0	20	36	49	60	70	108	132	152	170	180	189
	1.5	25	46	64	79	93	148	189	220	250	270	294
	2.0	29	53	74	92	109	176	225	268	305	336	364
	2.5	32	59	82	103	122	196	255	304	345	384	420
	3.0	35	64	89	112	132	216	279	336	380	426	462
	3.5	37	68	95	119	141	232	303	360	415	462	504
	4.0	39	72	101	126	150	246	321	384	440	492	539

Flat terrain	1.0	20	38	53	66	78	130	174	212	245	276	308
	1.5	26	48	67	84	100	166	222	272	315	354	392
	2.0	30	55	77	97	115	192	255	312	365	408	455
	2.5	33	60	85	106	127	212	282	344	400	456	504
	3.0	35	65	92	115	137	230	306	372	435	492	546
	3.5	38	69	97	123	146	246	327	400	465	522	581
	4.0	40	73	103	130	155	260	345	420	490	552	616

Downhill 2%	1.0	21	40	56	72	87	154	216	276	330	384	441
	1.5	26	49	70	89	107	186	255	320	385	444	504
	2.0	30	56	79	101	121	210	288	356	425	492	553
	2.5	33	62	87	110	133	228	312	388	460	528	595
	3.0	36	66	94	119	143	246	333	412	490	558	630
	3.5	38	70	100	126	151	260	351	436	515	588	665
	4.0	40	74	105	133	159	272	369	456	540	618	693

Minimum considered pressure 0.5 bar

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

PCJ™ AS drippers • On PE pipe 12/4 • ID 9.8 mm • Kd 1.65 • Flow rate 4.0 l/h

	Distance between drippers (meter)											
	Inlet pressure (bar)	0.2	0.4	0.6	0.8	1.0	2.0	3.0	4.0	5.0	6.0	7.0
Uphill 2%	1.0	17	30	41	50	59	92	117	136	150	162	175
	1.5	21	38	53	66	78	126	162	192	215	240	259
	2.0	24	44	62	78	91	148	192	228	260	288	315
	2.5	27	49	68	86	102	166	216	260	295	330	357
	3.0	29	53	74	94	111	182	237	284	325	366	399
	3.5	31	57	79	100	118	194	255	308	350	396	434
	4.0	33	60	84	106	125	206	270	328	375	420	462

Flat terrain	1.0	17	31	44	55	65	108	144	176	205	234	259
	1.5	21	40	55	70	83	138	186	224	260	294	329
	2.0	25	45	64	80	96	160	213	260	305	342	378
	2.5	27	50	70	89	106	178	237	288	335	378	420
	3.0	29	54	76	96	114	192	255	312	365	408	455
	3.5	31	58	81	102	122	204	273	332	385	438	483
	4.0	33	61	85	108	128	216	288	352	410	462	511

Downhill 2%	1.0	17	32	46	59	71	126	174	220	265	306	350
	1.5	22	40	58	73	88	152	210	260	310	360	406
	2.0	25	46	65	83	100	172	234	292	345	396	448
	2.5	27	51	72	91	110	188	255	316	375	432	483
	3.0	29	55	77	98	118	202	273	340	400	456	511
	3.5	31	58	82	105	125	214	291	360	420	480	539
	4.0	33	61	87	110	132	226	303	376	440	504	567

Minimum considered pressure 0.5 bar

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

PCJ™ AS drippers • On PE pipe 12/4 • ID 9.8 mm • Kd 1.65 • Flow rate 8.0 l/h

	Distance between drippers (meter)											
	Inlet pressure (bar)	0.2	0.4	0.6	0.8	1.0	2.0	3.0	4.0	5.0	6.0	7.0
Uphill 2%	1.0	11	20	27	34	40	64	81	96	110	120	133
	1.5	14	25	35	43	51	84	111	132	150	168	182
	2.0	16	28	40	50	60	98	129	156	180	198	217
	2.5	17	32	44	56	66	110	144	176	200	222	245
	3.0	18	34	48	60	72	120	156	188	220	246	273
	3.5	20	36	51	64	77	128	168	204	235	264	294
	4.0	21	38	54	68	81	134	180	216	250	282	308

Flat terrain	1.0	11	20	28	35	42	70	93	116	135	150	168
	1.5	14	25	35	45	53	90	120	144	170	192	217
	2.0	16	29	41	51	61	104	138	168	195	222	245
	2.5	17	32	45	57	68	114	153	184	215	246	273
	3.0	19	34	49	62	73	124	165	200	235	264	294
	3.5	20	37	52	66	78	132	177	216	250	282	315
	4.0	21	39	55	69	82	138	186	228	265	300	329

Downhill 2%	1.0	11	20	29	37	44	78	105	132	160	180	203
	1.5	14	26	37	46	55	96	129	160	190	216	245
	2.0	16	29	41	53	63	108	147	180	215	246	273
	2.5	17	32	46	58	69	118	159	200	235	264	301
	3.0	19	35	49	62	75	128	171	212	250	282	322
	3.5	20	37	52	66	79	136	183	224	265	300	336
	4.0	21	39	55	70	84	142	192	236	280	318	350

Minimum considered pressure 0.5 bar

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

PCJ™ AS drippers • On PE pipe 12/4 • ID 9.8 mm • Kd 1.65 • Flow rate 12.0 l/h

	Distance between drippers (meter)											
	Inlet pressure (bar)	0.2	0.4	0.6	0.8	1.0	2.0	3.0	4.0	5.0	6.0	7.0
Uphill 2%	1.0	8	15	21	26	31	50	66	80	90	102	112
	1.5	10	19	27	34	40	66	87	104	120	132	147
	2.0	12	22	31	39	46	76	102	124	140	162	175
	2.5	13	24	34	43	51	86	114	136	160	180	196
	3.0	14	26	37	46	56	92	123	148	175	192	217
	3.5	15	28	40	50	59	100	132	160	185	210	231
	4.0	16	30	41	53	63	104	138	168	195	222	245

Flat terrain	1.0	8	15	22	27	33	54	72	88	105	120	133
	1.5	10	20	28	34	41	70	93	112	130	150	168
	2.0	12	22	31	40	47	80	108	132	150	174	189
	2.5	13	24	35	44	52	88	117	144	170	192	210
	3.0	14	26	37	47	56	96	129	156	180	204	231
	3.5	15	28	40	50	60	102	135	168	195	222	245
	4.0	16	30	42	53	63	108	144	176	205	234	259

Downhill 2%	1.0	8	16	22	28	34	58	81	100	120	138	154
	1.5	11	20	28	35	42	72	99	124	145	168	182
	2.0	12	22	32	41	48	82	111	140	165	186	210
	2.5	13	25	35	45	53	90	123	152	180	204	224
	3.0	14	27	38	48	57	98	132	164	190	216	245
	3.5	15	28	40	51	61	104	141	172	205	228	259
	4.0	16	30	42	54	64	110	147	180	215	240	273

Minimum considered pressure 0.5 bar

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

PCJ™ AS drippers • On PE pipe 12/4 • ID 9.8 mm • Kd 1.65 • Flow rate 15.0 l/h

	Distance between drippers (meter)											
	Inlet pressure (bar)	0.2	0.4	0.6	0.8	1.0	2.0	3.0	4.0	5.0	6.0	7.0
Uphill 2%	1.0	7	10	13	16	19	21	23	25	27	90	98
	1.5	9	13	17	20	23	27	30	32	35	120	133
	2.0	10	15	19	23	27	31	34	37	40	138	154
	2.5	11	17	21	26	30	34	38	41	45	156	175
	3.0	12	18	23	28	32	36	41	44	48	168	189
	3.5	13	19	24	30	34	39	43	48	52	180	203
	4.0	14	20	26	31	36	41	46	50	54	192	217

Flat terrain	1.0	7	11	13	16	19	21	24	26	28	102	112
	1.5	9	13	17	21	24	27	30	33	36	132	147
	2.0	10	15	19	24	27	31	34	38	41	150	168
	2.5	11	17	21	26	30	34	38	41	45	168	182
	3.0	12	18	23	28	32	37	41	45	49	180	196
	3.5	13	19	24	30	34	39	44	48	52	192	210
	4.0	14	20	26	31	37	41	46	50	55	204	224

Downhill 2%	1.0	7	11	14	17	19	22	25	27	29	120	133
	1.5	9	13	17	21	24	27	30	33	37	144	161
	2.0	10	15	20	24	28	32	35	39	42	162	182
	2.5	11	17	22	26	31	34	38	42	46	174	196
	3.0	12	18	23	28	32	37	42	46	50	186	210
	3.5	13	19	24	30	35	39	44	49	53	198	224
	4.0	14	20	26	32	37	41	46	51	56	210	231

Minimum considered pressure 0.5 bar

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

PCJ™ AS drippers • On PE pipe 16/4 • ID 13.2 mm • Kd 0.39 • Flow rate 0.5 l/h

	Distance between drippers (meter)											
	Inlet pressure (bar)	0.2	0.4	0.6	0.8	1.0	2.0	3.0	4.0	5.0	6.0	7.0
Uphill 2%	1.0	111	161	189	206	217	238	246	248	250	252	252
	1.5	153	237	292	332	361	436	465	480	485	492	497
	2.0	181	289	364	422	466	596	657	688	705	720	728
	2.5	204	330	421	492	550	730	822	876	910	930	945
	3.0	223	364	468	551	620	846	969	1044	1095	1128	1155
	3.5	239	393	509	602	681	946	1101	1200	1265	1314	1351
	4.0	254	420	545	649	736	1036	1218	1340	1425	1488	1533

Flat terrain	1.0	136	232	312	382	446	710	927	1120	1295	1458	1610
	1.5	174	297	399	489	571	912	1191	1436	1660	1866	2065
	2.0	200	343	461	566	660	1054	1377	1664	1920	2160	2387
	2.5	221	379	511	626	732	1170	1527	1844	2130	2400	2653
	3.0	239	410	553	678	792	1266	1656	2000	2310	2598	2870
	3.5	254	438	590	724	846	1352	1767	2136	2465	2778	3066
	4.0	268	462	623	765	894	1430	1869	2256	2610	2934	3241

Downhill 2%	1.0	162	309	450	588	725	1298	1818	2312	2795	3270	3731
	1.5	195	360	513	661	804	1416	1968	2492	2995	3492	3976
	2.0	218	398	562	718	869	1514	2091	2640	3165	3678	4179
	2.5	238	430	604	767	925	1598	2199	2764	3310	3834	4354
	3.0	255	458	640	810	974	1674	2295	2880	3440	3978	4508
	3.5	269	483	673	850	1018	1742	2382	2984	3555	4110	4648
	4.0	283	505	703	885	1058	1804	2463	3076	3665	4230	4781

Minimum considered pressure 0.5 bar

Due to lateral filling time and flushing effectiveness it is not recommended to exceed 800 meters lateral length

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

PCJ™ AS drippers • On PE pipe 16/4 • ID 13.2 mm • Kd 0.39 • Flow rate 1.20 l/h

	Distance between drippers (meter)											
	Inlet pressure (bar)	0.2	0.4	0.6	0.8	1.0	2.0	3.0	4.0	5.0	6.0	7.0
Uphill 2%	1.0	69	108	135	155	170	210	228	236	240	246	245
	1.5	92	149	191	226	253	344	393	424	445	456	469
	2.0	107	177	230	274	311	440	519	572	610	636	658
	2.5	120	199	261	313	357	516	618	692	745	792	819
	3.0	130	218	287	345	395	580	705	796	865	924	966
	3.5	139	234	310	373	428	634	777	888	970	1038	1099
	4.0	147	249	329	398	458	684	843	968	1065	1146	1218

Flat terrain	1.0	77	132	178	218	255	406	531	640	740	834	924
	1.5	98	169	227	279	326	522	681	824	950	1074	1183
	2.0	113	195	263	322	377	602	789	952	1100	1242	1372
	2.5	125	216	291	357	417	668	873	1056	1220	1374	1519
	3.0	135	233	315	386	452	724	948	1144	1325	1488	1645
	3.5	144	248	336	413	483	774	1011	1220	1415	1590	1757
	4.0	152	262	355	436	510	818	1068	1292	1495	1680	1855

Downhill 2%	1.0	85	157	223	286	347	642	909	1144	1370	1590	1806
	1.5	105	189	264	335	402	718	1002	1252	1495	1728	1953
	2.0	119	212	295	372	445	778	1077	1344	1595	1842	2079
	2.5	130	232	321	403	480	830	1143	1420	1685	1938	2184
	3.0	140	248	343	430	511	876	1200	1488	1760	2028	2282
	3.5	149	263	362	454	538	918	1251	1552	1835	2106	2366
	4.0	156	276	380	474	563	956	1299	1608	1900	2178	2443

Minimum considered pressure 0.5 bar

Due to lateral filling time and flushing effectiveness it is not recommended to exceed 800 meters lateral length

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

PCJ™ AS drippers • On PE pipe 16/4 • ID 13.2 mm • Kd 0.39 • Flow rate 2.0 l/h

	Distance between drippers (meter)											
	Inlet pressure (bar)	0.2	0.4	0.6	0.8	1.0	2.0	3.0	4.0	5.0	6.0	7.0
Uphill 2%	1.0	51	83	106	123	138	184	207	220	230	234	238
	1.5	67	111	145	173	197	280	333	368	395	414	427
	2.0	78	131	172	207	237	348	423	480	520	558	581
	2.5	87	146	194	234	269	402	495	568	625	672	707
	3.0	94	160	212	257	296	446	555	640	710	768	819
	3.5	101	171	228	277	319	486	606	704	785	852	910
	4.0	106	182	242	294	340	520	654	760	850	930	994

Flat terrain	1.0	55	95	128	158	184	294	384	464	535	606	665
	1.5	70	121	164	201	235	376	492	596	690	774	854
	2.0	81	140	189	232	272	436	570	688	795	894	987
	2.5	90	155	209	258	301	482	633	764	880	996	1099
	3.0	97	168	227	278	326	522	684	828	955	1074	1190
	3.5	103	179	242	298	348	558	732	884	1020	1152	1267
	4.0	109	189	255	314	367	590	771	932	1080	1218	1344

Downhill 2%	1.0	60	108	151	193	232	418	594	768	920	1062	1204
	1.5	74	132	183	230	275	478	666	848	1010	1164	1316
	2.0	84	149	206	258	307	526	726	916	1090	1248	1407
	2.5	92	163	225	281	333	566	777	972	1155	1320	1484
	3.0	99	176	241	301	356	602	819	1024	1210	1386	1554
	3.5	106	186	256	318	377	634	861	1072	1265	1446	1624
	4.0	111	196	268	334	395	662	897	1112	1310	1500	1680

Minimum considered pressure 0.5 bar

Due to lateral filling time and flushing effectiveness it is not recommended to exceed 800 meters lateral length

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

PCJ™ AS drippers • On PE pipe 16/4 • ID 13.2 mm • Kd 0.39 • Flow rate 3.0 l/h

	Distance between drippers (meter)											
	Inlet pressure (bar)	0.2	0.4	0.6	0.8	1.0	2.0	3.0	4.0	5.0	6.0	7.0
Uphill 2%	1.0	40	66	85	101	114	160	186	204	215	222	231
	1.5	52	87	115	138	159	232	282	320	350	372	392
	2.0	61	102	136	164	189	284	351	404	445	480	511
	2.5	67	114	152	185	213	324	405	472	525	570	609
	3.0	73	124	166	202	234	358	450	524	590	642	693
	3.5	78	133	178	217	251	388	489	576	645	708	763
	4.0	82	141	189	230	267	414	525	616	695	768	826

Flat terrain	1.0	43	73	99	122	142	228	297	360	415	468	518
	1.5	54	94	126	155	181	290	381	460	530	600	665
	2.0	62	108	146	179	210	336	441	532	615	696	763
	2.5	69	119	161	198	232	372	489	588	680	768	847
	3.0	74	129	175	215	251	404	528	640	740	834	917
	3.5	79	138	186	229	268	430	564	684	790	888	980
	4.0	84	145	197	242	283	456	597	720	835	942	1036

Downhill 2%	1.0	45	81	113	142	171	300	423	540	660	774	875
	1.5	56	100	137	172	205	352	486	612	735	858	966
	2.0	64	113	156	194	231	390	534	668	800	924	1043
	2.5	70	124	170	213	251	422	573	716	850	984	1106
	3.0	76	134	183	228	269	450	609	756	895	1032	1162
	3.5	81	142	194	242	285	476	642	796	940	1080	1211
	4.0	85	149	205	254	300	498	669	828	980	1122	1253

Minimum considered pressure 0.5 bar

Due to lateral filling time and flushing effectiveness it is not recommended to exceed 800 meters lateral length

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

PCJ™ AS drippers • On PE pipe 16/4 • ID 13.2 mm • Kd 0.39 • Flow rate 4.0 l/h

	Distance between drippers (meter)											
	Inlet pressure (bar)	0.2	0.4	0.6	0.8	1.0	2.0	3.0	4.0	5.0	6.0	7.0
Uphill 2%	1.0	34	56	73	87	99	142	168	188	200	210	217
	1.5	44	74	97	118	135	202	249	284	315	336	357
	2.0	50	86	114	138	160	244	306	352	395	426	455
	2.5	56	96	128	155	180	276	348	408	460	498	539
	3.0	61	104	139	170	197	304	387	452	510	564	609
	3.5	65	111	149	182	211	328	417	492	555	612	665
	4.0	68	118	158	193	225	350	447	528	600	660	714

Flat terrain	1.0	35	61	82	101	118	190	249	300	345	390	434
	1.5	45	78	105	129	151	242	318	384	445	498	553
	2.0	52	90	121	149	174	280	366	444	515	576	637
	2.5	57	99	134	165	193	310	408	492	570	642	707
	3.0	62	107	145	178	209	336	441	532	615	696	770
	3.5	66	114	155	190	223	358	471	568	660	738	819
	4.0	69	120	163	202	236	380	498	600	695	780	868

Downhill 2%	1.0	37	66	92	115	138	240	336	428	515	606	693
	1.5	46	82	113	141	167	284	390	488	585	678	770
	2.0	53	93	128	159	189	318	432	536	640	738	833
	2.5	58	102	140	174	207	346	465	580	685	786	889
	3.0	63	110	151	188	222	368	495	616	725	834	938
	3.5	67	117	160	199	235	390	522	644	760	870	980
	4.0	70	124	169	210	247	408	549	676	795	912	1022

Minimum considered pressure 0.5 bar

Due to lateral filling time and flushing effectiveness it is not recommended to exceed 800 meters lateral length

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

PCJ™ AS drippers • On PE pipe 16/4 • ID 13.2 mm • Kd 0.39 • Flow rate 8.0 l/h

	Distance between drippers (meter)											
	Inlet pressure (bar)	0.2	0.4	0.6	0.8	1.0	2.0	3.0	4.0	5.0	6.0	7.0
Uphill 2%	1.0	22	37	49	59	68	102	126	144	160	174	182
	1.5	28	48	64	78	91	140	177	204	230	252	273
	2.0	32	56	75	91	106	166	210	248	280	312	336
	2.5	36	62	83	102	119	186	237	280	320	354	385
	3.0	39	67	91	111	129	204	261	312	355	390	427
	3.5	41	72	97	118	138	218	282	336	380	426	462
	4.0	44	76	103	126	147	232	300	356	410	456	497

Flat terrain	1.0	23	39	53	65	76	122	159	192	225	252	280
	1.5	29	50	67	83	97	156	204	248	285	324	357
	2.0	33	57	77	96	112	180	237	288	330	372	413
	2.5	36	63	86	106	124	200	261	316	365	414	455
	3.0	39	68	93	114	134	216	285	344	395	450	497
	3.5	42	73	99	122	143	230	303	368	425	480	525
	4.0	44	77	104	129	151	244	321	388	450	504	560

Downhill 2%	1.0	23	41	57	71	84	144	195	248	295	342	392
	1.5	29	52	71	88	104	174	234	292	345	396	448
	2.0	33	59	80	100	118	196	264	324	385	438	497
	2.5	37	65	89	110	130	214	288	352	415	474	532
	3.0	40	70	95	118	139	230	306	376	445	504	567
	3.5	42	74	101	126	148	244	324	400	465	534	595
	4.0	44	78	107	133	156	256	342	416	490	558	623

Minimum considered pressure 0.5 bar

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

PCJ™ AS drippers • On PE pipe 16/4 • ID 13.2 mm • Kd 0.39 • Flow rate 12.0 l/h

	Distance between drippers (meter)											
	Inlet pressure (bar)	0.2	0.4	0.6	0.8	1.0	2.0	3.0	4.0	5.0	6.0	7.0
Uphill 2%	1.0	17	29	38	46	54	82	102	120	135	144	154
	1.5	22	37	50	62	71	110	141	168	190	210	224
	2.0	25	43	58	71	83	130	168	200	225	252	273
	2.5	28	48	65	79	93	146	189	224	255	288	308
	3.0	30	52	70	86	101	160	207	248	280	312	343
	3.5	32	56	75	92	108	172	222	264	305	336	371
	4.0	34	59	79	98	114	182	234	280	325	360	392

Flat terrain	1.0	17	30	41	50	59	94	123	152	175	198	217
	1.5	22	38	52	64	75	120	159	192	225	252	280
	2.0	25	44	60	74	87	140	183	220	255	288	322
	2.5	28	49	67	82	96	154	204	244	285	318	357
	3.0	30	53	72	89	104	168	219	264	310	348	385
	3.5	32	56	76	94	111	178	234	284	330	372	413
	4.0	34	59	81	100	117	188	249	300	345	390	434

Downhill 2%	1.0	18	31	43	54	64	108	147	184	215	252	280
	1.5	22	39	54	67	79	132	177	220	255	294	329
	2.0	26	45	62	77	90	148	198	244	290	330	371
	2.5	28	50	68	84	99	164	219	268	315	354	399
	3.0	30	54	73	90	107	176	234	284	335	384	427
	3.5	32	57	78	97	114	186	246	304	355	402	448
	4.0	34	60	82	102	120	196	261	316	370	420	469

Minimum considered pressure 0.5 bar

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

PCJ™ AS drippers • On PE pipe 16/4 • ID 13.2 mm • Kd 0.39 • Flow rate 15.0 l/h

	Distance between drippers (meter)											
	Inlet pressure (bar)	0.2	0.4	0.6	0.8	1.0	2.0	3.0	4.0	5.0	6.0	7.0
Uphill 2%	1.0	15	20	25	30	34	37	41	44	47	132	140
	1.5	19	26	32	39	44	49	54	58	62	186	203
	2.0	22	30	38	45	51	57	62	68	73	222	245
	2.5	24	33	42	50	56	63	69	75	81	252	273
	3.0	26	36	45	54	61	69	75	82	88	276	301
	3.5	28	38	48	57	65	73	80	87	94	300	329
	4.0	29	41	51	61	69	77	85	93	99	318	350

Flat terrain	1.0	15	21	26	31	35	40	44	48	51	174	189
	1.5	19	26	33	40	45	50	55	60	65	216	245
	2.0	22	31	38	46	52	58	64	70	75	252	280
	2.5	24	34	42	50	58	64	71	77	83	276	308
	3.0	26	36	46	54	62	69	77	84	90	300	336
	3.5	28	39	49	58	66	74	82	89	96	324	357
	4.0	29	41	51	61	70	78	86	94	101	342	378

Downhill 2%	1.0	15	22	27	32	37	42	46	50	55	210	238
	1.5	19	27	34	41	47	53	58	63	68	252	280
	2.0	22	31	39	47	53	60	66	72	78	282	315
	2.5	24	34	43	51	59	66	73	79	86	306	343
	3.0	26	37	46	55	63	71	78	86	92	330	364
	3.5	28	39	49	59	67	76	83	91	98	348	385
	4.0	29	41	52	62	71	80	88	95	103	366	406

Minimum considered pressure 0.5 bar

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

PCJ™ AS drippers • On PE pipe 20/4 • ID 17.0 mm • Kd 0.13 • Flow rate 0.5 l/h

	Distance between drippers (meter)											
	Inlet pressure (bar)	0.2	0.4	0.6	0.8	1.0	2.0	3.0	4.0	5.0	6.0	7.0
Uphill 2%	1.0	161	206	224	233	238	248	249	252	250	252	252
	1.5	236	331	383	414	435	478	489	496	495	498	504
	2.0	288	420	501	556	595	686	717	728	735	744	742
	2.5	329	490	596	672	728	872	927	956	970	978	987
	3.0	363	550	676	770	842	1042	1125	1168	1195	1206	1218
	3.5	393	601	746	856	942	1196	1311	1372	1410	1434	1449
	4.0	419	646	808	932	1032	1336	1482	1564	1615	1650	1673

Flat terrain	1.0	232	380	502	609	706	1112	1446	1740	2005	2256	2492
	1.5	296	487	644	781	906	1426	1854	2232	2580	2898	3199
	2.0	342	563	745	904	1048	1652	2148	2588	2985	3354	3703
	2.5	379	624	826	1002	1163	1832	2382	2868	3310	3726	4109
	3.0	410	676	894	1086	1260	1986	2583	3112	3590	4038	4459
	3.5	437	722	955	1159	1345	2122	2760	3324	3835	4314	4760
	4.0	462	762	1009	1226	1422	2242	2916	3512	4055	4560	5033

Downhill 2%	1.0	308	585	848	1074	1290	2296	3240	4152	5045	5922	6790
	1.5	359	658	935	1178	1408	2474	3465	4416	5340	6246	7140
	2.0	398	716	1006	1262	1505	2620	3648	4632	5585	6522	7434
	2.5	430	764	1067	1335	1590	2746	3807	4820	5800	6756	7693
	3.0	458	808	1122	1401	1664	2860	3951	4988	5990	6966	7924
	3.5	482	846	1171	1460	1732	2962	4080	5140	6165	7158	8134
	4.0	505	882	1216	1514	1794	3058	4200	5284	6325	7338	8330

Minimum considered pressure 0.5 bar

Due to lateral filling time and flushing effectiveness it is not recommended to exceed 800 meters lateral length

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

PCJ™ AS drippers • On PE pipe 20/4 • ID 17.0 mm • Kd 0.13 • Flow rate 1.20 l/h

	Distance between drippers (meter)											
	Inlet pressure (bar)	0.2	0.4	0.6	0.8	1.0	2.0	3.0	4.0	5.0	6.0	7.0
Uphill 2%	1.0	108	154	181	198	210	236	243	248	250	252	252
	1.5	149	225	276	314	342	422	453	472	480	486	490
	2.0	177	273	342	395	438	568	633	668	690	708	714
	2.5	199	312	394	459	513	688	786	844	885	912	931
	3.0	218	344	437	513	577	792	918	1000	1055	1098	1127
	3.5	234	372	475	560	632	882	1035	1140	1215	1266	1309
	4.0	248	396	509	602	681	962	1140	1268	1355	1428	1477

Flat terrain	1.0	132	217	287	348	404	636	828	996	1150	1296	1428
	1.5	168	278	367	446	518	816	1062	1280	1475	1662	1834
	2.0	194	321	425	516	599	946	1230	1480	1710	1920	2121
	2.5	215	356	471	573	665	1048	1365	1644	1895	2130	2352
	3.0	233	385	510	620	720	1136	1479	1780	2055	2310	2555
	3.5	248	411	545	662	769	1214	1578	1900	2195	2472	2723
	4.0	262	434	575	700	813	1282	1668	2012	2320	2610	2884

Downhill 2%	1.0	157	284	404	522	636	1136	1575	1996	2400	2802	3192
	1.5	189	333	465	590	712	1244	1713	2156	2585	3000	3409
	2.0	212	370	512	645	773	1332	1824	2288	2735	3168	3591
	2.5	232	401	551	691	825	1410	1923	2404	2865	3312	3752
	3.0	248	428	586	732	871	1478	2010	2508	2985	3444	3892
	3.5	263	452	616	768	912	1540	2088	2600	3090	3564	4018
	4.0	276	473	644	801	950	1596	2160	2688	3185	3672	4137

Minimum considered pressure 0.5 bar

Due to lateral filling time and flushing effectiveness it is not recommended to exceed 800 meters lateral length

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

PCJ™ AS drippers • On PE pipe 20/4 • ID 17.0 mm • Kd 0.13 • Flow rate 2.0 l/h

	Distance between drippers (meter)											
	Inlet pressure (bar)	0.2	0.4	0.6	0.8	1.0	2.0	3.0	4.0	5.0	6.0	7.0
Uphill 2%	1.0	82	123	149	168	183	220	234	240	245	246	252
	1.5	111	172	217	251	279	368	414	440	455	468	476
	2.0	131	206	263	308	346	476	552	600	635	660	679
	2.5	146	233	299	354	399	562	666	736	790	828	854
	3.0	159	256	330	391	444	636	762	852	920	972	1015
	3.5	171	276	356	424	483	700	846	956	1040	1104	1162
	4.0	181	293	380	454	517	756	921	1048	1145	1224	1288

Flat terrain	1.0	95	156	207	251	291	460	597	720	830	936	1036
	1.5	121	200	265	322	374	590	768	924	1070	1200	1323
	2.0	140	231	307	373	432	682	888	1068	1235	1392	1533
	2.5	155	256	340	413	480	758	984	1188	1370	1542	1701
	3.0	167	278	368	447	520	820	1068	1288	1485	1668	1848
	3.5	178	296	392	478	555	876	1140	1372	1585	1782	1967
	4.0	188	313	415	505	586	926	1206	1452	1675	1884	2086

Downhill 2%	1.0	108	192	268	342	414	760	1053	1324	1585	1836	2086
	1.5	132	229	316	397	475	842	1155	1444	1720	1992	2254
	2.0	149	257	352	439	523	908	1239	1544	1835	2118	2387
	2.5	163	280	381	474	563	966	1311	1628	1935	2226	2506
	3.0	175	300	407	506	598	1016	1377	1708	2020	2322	2618
	3.5	186	317	430	533	629	1062	1434	1776	2100	2412	2709
	4.0	196	333	451	558	657	1104	1488	1840	2170	2490	2800

Minimum considered pressure 0.5 bar

Due to lateral filling time and flushing effectiveness it is not recommended to exceed 800 meters lateral length

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

PCJ™ AS drippers • On PE pipe 20/4 • ID 17.0 mm • Kd 0.13 • Flow rate 3.0 l/h

	Distance between drippers (meter)											
	Inlet pressure (bar)	0.2	0.4	0.6	0.8	1.0	2.0	3.0	4.0	5.0	6.0	7.0
Uphill 2%	1.0	66	100	125	143	158	200	219	232	235	240	245
	1.5	87	138	175	206	231	318	369	400	425	438	455
	2.0	102	163	210	249	282	400	477	532	570	600	630
	2.5	114	184	238	283	322	466	564	636	695	738	777
	3.0	124	201	261	311	356	522	639	728	800	858	903
	3.5	133	216	281	337	385	570	702	804	890	960	1015
	4.0	141	229	299	358	411	612	759	876	970	1050	1120
Flat terrain	1.0	73	120	160	194	225	356	462	556	645	726	798
	1.5	93	154	205	249	289	456	594	716	825	930	1022
	2.0	108	178	236	287	334	528	687	828	955	1074	1183
	2.5	119	198	262	318	370	584	762	916	1060	1194	1316
	3.0	129	214	284	345	401	634	825	992	1150	1290	1428
	3.5	137	228	303	369	428	676	882	1060	1225	1380	1519
	4.0	145	241	320	390	453	716	930	1124	1295	1458	1610
Downhill 2%	1.0	81	142	196	248	298	536	765	964	1150	1332	1505
	1.5	99	172	235	294	349	606	846	1060	1260	1452	1638
	2.0	113	194	263	327	388	662	915	1140	1350	1548	1743
	2.5	124	212	287	355	420	710	972	1208	1425	1638	1841
	3.0	133	227	307	379	448	750	1023	1268	1495	1710	1925
	3.5	142	241	325	401	472	788	1068	1320	1555	1782	2002
	4.0	149	253	341	421	495	822	1113	1372	1615	1848	2072

Minimum considered pressure 0.5 bar

Due to lateral filling time and flushing effectiveness it is not recommended to exceed 800 meters lateral length

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

PCJ™ AS drippers • On PE pipe 20/4 • ID 17.0 mm • Kd 0.13 • Flow rate 4.0 l/h

	Distance between drippers (meter)											
	Inlet pressure (bar)	0.2	0.4	0.6	0.8	1.0	2.0	3.0	4.0	5.0	6.0	7.0
Uphill 2%	1.0	56	86	109	126	140	184	207	220	230	234	238
	1.5	73	117	150	177	200	282	333	368	395	414	427
	2.0	86	138	178	212	242	350	423	480	520	552	581
	2.5	95	155	201	240	275	404	495	568	625	672	707
	3.0	104	169	220	264	302	450	555	640	710	768	812
	3.5	111	181	237	284	326	490	609	704	785	852	910
	4.0	117	192	252	302	348	524	654	760	850	924	994
Flat terrain	1.0	61	100	133	162	187	296	384	464	535	606	665
	1.5	77	128	170	207	240	380	495	596	690	774	854
	2.0	89	148	197	239	278	440	573	688	795	894	987
	2.5	99	164	218	265	308	486	633	764	880	990	1099
	3.0	107	178	236	287	334	528	687	828	955	1074	1190
	3.5	114	190	252	306	356	564	735	884	1020	1146	1267
	4.0	120	200	266	324	377	596	777	936	1080	1212	1344
Downhill 2%	1.0	66	115	158	199	238	422	597	768	920	1062	1197
	1.5	82	140	191	238	282	484	672	852	1015	1164	1309
	2.0	93	159	215	266	315	532	729	920	1090	1248	1400
	2.5	102	174	235	290	342	572	780	976	1155	1320	1484
	3.0	110	187	252	311	366	608	825	1028	1210	1386	1554
	3.5	117	198	267	329	387	640	864	1072	1265	1446	1617
	4.0	123	209	281	346	406	670	900	1116	1315	1500	1680

Minimum considered pressure 0.5 bar

Due to lateral filling time and flushing effectiveness it is not recommended to exceed 800 meters lateral length

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

PCJ™ AS drippers • On PE pipe 20/4 • ID 17.0 mm • Kd 0.13 • Flow rate 8.0 l/h

	Distance between drippers (meter)											
	Inlet pressure (bar)	0.2	0.4	0.6	0.8	1.0	2.0	3.0	4.0	5.0	6.0	7.0
Uphill 2%	1.0	37	58	75	89	101	142	168	188	200	210	217
	1.5	48	78	101	121	138	204	249	284	315	336	357
	2.0	56	91	119	142	164	246	306	352	395	426	455
	2.5	62	101	133	160	184	278	351	408	460	498	539
	3.0	67	110	145	175	201	308	387	456	510	558	602
	3.5	72	118	155	188	217	332	420	492	555	612	665
	4.0	76	125	165	199	230	354	450	528	600	660	714
Flat terrain	1.0	39	64	85	104	121	190	249	300	345	390	434
	1.5	50	82	109	133	155	244	318	384	445	498	553
	2.0	57	95	126	154	179	282	369	444	515	576	637
	2.5	63	105	140	170	198	314	408	492	570	642	707
	3.0	68	114	151	185	214	340	441	532	615	696	763
	3.5	73	122	161	197	229	362	471	568	660	738	819
	4.0	77	128	171	208	242	384	498	600	695	780	861
Downhill 2%	1.0	41	70	96	119	142	244	336	428	515	606	693
	1.5	51	87	118	146	172	288	393	492	585	678	770
	2.0	59	99	134	165	194	322	435	540	640	738	833
	2.5	65	109	147	181	212	348	468	580	685	786	889
	3.0	70	118	158	194	228	372	498	616	725	834	938
	3.5	74	125	168	206	242	394	525	648	760	870	980
	4.0	78	132	177	217	254	414	552	676	795	906	1015

Minimum considered pressure 0.5 bar

Due to lateral filling time and flushing effectiveness it is not recommended to exceed 800 meters lateral length

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

PCJ™ AS drippers • On PE pipe 20/4 • ID 17.0 mm • Kd 0.13 • Flow rate 12.0 l/h

	Distance between drippers (meter)											
	Inlet pressure (bar)	0.2	0.4	0.6	0.8	1.0	2.0	3.0	4.0	5.0	6.0	7.0
Uphill 2%	1.0	29	46	60	71	81	118	144	160	175	186	196
	1.5	37	61	79	95	109	164	204	236	265	288	308
	2.0	43	71	93	112	129	196	246	288	325	354	385
	2.5	48	79	104	126	145	222	282	332	375	408	448
	3.0	52	86	113	137	158	244	309	364	415	456	497
	3.5	55	92	121	146	169	262	333	396	450	498	539
	4.0	58	97	128	155	180	278	357	420	480	534	581
Flat terrain	1.0	30	50	66	80	93	148	192	232	270	300	336
	1.5	38	64	85	102	119	190	246	296	345	384	427
	2.0	44	73	97	118	138	218	285	344	395	450	497
	2.5	49	81	108	131	153	242	315	380	440	498	546
	3.0	53	88	117	142	166	262	342	412	475	534	595
	3.5	56	94	125	152	177	280	366	440	510	570	630
	4.0	59	99	132	161	187	296	387	464	540	606	672
Downhill 2%	1.0	31	53	72	90	106	178	246	308	370	432	490
	1.5	39	66	89	110	130	214	291	360	430	492	560
	2.0	45	76	102	126	147	242	324	400	475	540	609
	2.5	49	84	112	138	161	264	351	432	510	582	658
	3.0	53	90	121	148	174	282	375	460	540	618	693
	3.5	57	96	128	158	184	300	396	488	570	654	728
	4.0	60	101	136	166	194	314	417	512	595	678	763

Minimum considered pressure 0.5 bar

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

PCJ™ AS drippers • On PE pipe 20/4 • ID 17.0 mm • Kd 0.13 • Flow rate 15.0 l/h

	Distance between drippers (meter)											
	Inlet pressure (bar)	0.2	0.4	0.6	0.8	1.0	2.0	3.0	4.0	5.0	6.0	7.0
Uphill 2%	1.0	25	33	40	47	53	58	63	68	72	174	182
	1.5	32	43	53	62	70	77	83	90	96	258	280
	2.0	37	50	62	72	81	90	98	105	113	318	343
	2.5	41	56	69	80	91	100	110	118	127	366	399
	3.0	45	61	74	87	98	109	119	129	138	408	441
	3.5	48	65	80	93	106	117	128	138	148	438	483
	4.0	51	69	84	99	112	124	135	147	157	468	511
Flat terrain	1.0	26	35	43	51	57	64	70	76	81	264	294
	1.5	33	45	55	65	73	81	89	96	104	336	371
	2.0	38	52	64	75	85	94	103	112	120	390	427
	2.5	42	57	70	83	94	104	114	123	133	432	476
	3.0	46	62	76	90	101	113	123	134	144	468	518
	3.5	49	66	81	95	108	120	132	143	153	498	553
	4.0	51	70	86	101	114	127	139	151	162	528	581
Downhill 2%	1.0	27	37	46	54	62	69	77	84	90	360	406
	1.5	34	46	57	68	77	86	95	104	111	414	469
	2.0	39	53	66	77	88	98	108	118	127	462	518
	2.5	43	58	72	85	97	108	118	129	139	498	560
	3.0	46	63	78	92	104	116	128	139	150	528	588
	3.5	49	67	83	98	111	124	136	148	159	558	623
	4.0	52	71	87	103	117	130	143	156	167	582	651

Minimum considered pressure 0.5 bar

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

PCJ™ AS drippers • On PE pipe 25/4 • ID 21.2 mm • Kd 0.10 • Flow rate 0.5 l/h

	Distance between drippers (meter)											
	Inlet pressure (bar)	0.2	0.4	0.6	0.8	1.0	2.0	3.0	4.0	5.0	6.0	7.0
Uphill 2%	1.0	197	229	239	243	246	250	252	252	250	252	252
	1.5	309	400	440	461	472	492	498	500	500	504	504
	2.0	387	531	605	647	674	724	738	744	745	750	749
	2.5	449	636	742	809	853	946	972	984	990	996	994
	3.0	501	726	861	950	1013	1154	1200	1220	1230	1236	1239
	3.5	545	803	965	1077	1157	1352	1419	1448	1465	1476	1484
	4.0	585	872	1058	1190	1288	1536	1629	1672	1700	1710	1722
Flat terrain	1.0	339	556	734	890	1033	1626	2112	2544	2935	3300	3640
	1.5	434	713	942	1142	1325	2088	2715	3268	3770	4242	4683
	2.0	501	824	1089	1322	1534	2416	3141	3784	4365	4908	5418
	2.5	554	914	1208	1466	1701	2680	3486	4196	4845	5448	6013
	3.0	600	989	1309	1589	1844	2906	3780	4548	5250	5904	6517
	3.5	640	1056	1397	1696	1969	3104	4038	4860	5610	6306	6965
	4.0	676	1116	1476	1793	2081	3282	4269	5140	5930	6666	7364
Downhill 2%	1.0	501	958	1351	1724	2085	3790	5409	6984	8535	10062	11578
	1.5	567	1053	1472	1869	2250	4034	5718	7344	8940	10512	12061
	2.0	620	1130	1573	1988	2386	4238	5973	7644	9280	10884	12467
	2.5	664	1197	1659	2092	2505	4416	6195	7908	9575	11208	12824
	3.0	702	1256	1736	2184	2610	4574	6393	8140	9840	11502	13139
	3.5	737	1310	1806	2267	2706	4718	6576	8352	10080	11766	13433
	4.0	768	1360	1870	2344	2794	4852	6744	8552	10300	12018	13699

Minimum considered pressure 0.5 bar

Due to lateral filling time and flushing effectiveness it is not recommended to exceed 800 meters lateral length

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

PCJ™ AS drippers • On PE pipe 25/4 • ID 21.2 mm • Kd 0.10 • Flow rate 1.20 l/h

	Distance between drippers (meter)											
	Inlet pressure (bar)	0.2	0.4	0.6	0.8	1.0	2.0	3.0	4.0	5.0	6.0	7.0
Uphill 2%	1.0	143	190	212	225	232	244	249	252	250	252	252
	1.5	205	296	350	386	410	464	483	488	495	498	497
	2.0	247	369	449	506	548	656	696	716	730	732	742
	2.5	280	427	527	602	660	822	894	928	950	966	973
	3.0	308	475	593	683	755	970	1071	1128	1165	1182	1197
	3.5	333	517	650	754	838	1102	1236	1312	1365	1398	1421
	4.0	354	555	701	817	912	1220	1386	1488	1550	1596	1631

Flat terrain	1.0	193	317	419	509	590	930	1209	1456	1680	1890	2086
	1.5	246	406	538	653	758	1194	1554	1872	2160	2430	2681
	2.0	284	470	622	755	877	1382	1797	2164	2500	2808	3101
	2.5	315	520	689	838	972	1534	1995	2404	2775	3120	3444
	3.0	341	564	746	907	1053	1662	2163	2604	3005	3378	3731
	3.5	363	602	797	969	1125	1774	2310	2780	3210	3612	3983
	4.0	384	636	842	1024	1189	1876	2442	2940	3395	3816	4214

Downhill 2%	1.0	246	461	668	864	1035	1828	2565	3276	3970	4650	5320
	1.5	290	525	746	952	1136	1978	2757	3500	4220	4926	5621
	2.0	323	576	808	1024	1218	2104	2913	3684	4430	5160	5873
	2.5	350	618	861	1086	1290	2212	3051	3848	4615	5364	6097
	3.0	374	655	908	1142	1353	2308	3174	3992	4780	5544	6293
	3.5	394	688	950	1191	1411	2396	3285	4120	4925	5706	6475
	4.0	413	718	989	1237	1464	2476	3387	4244	5065	5862	6636

Minimum considered pressure 0.5 bar

Due to lateral filling time and flushing effectiveness it is not recommended to exceed 800 meters lateral length

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

PCJ™ AS drippers • On PE pipe 25/4 • ID 21.2 mm • Kd 0.10 • Flow rate 2.0 l/h

	Distance between drippers (meter)											
	Inlet pressure (bar)	0.2	0.4	0.6	0.8	1.0	2.0	3.0	4.0	5.0	6.0	7.0
Uphill 2%	1.0	112	159	186	202	214	238	243	248	250	252	252
	1.5	155	234	286	324	353	430	459	476	485	486	490
	2.0	185	285	356	410	453	582	645	680	700	714	721
	2.5	208	326	411	478	533	710	804	860	895	918	938
	3.0	228	360	457	535	601	818	942	1020	1075	1110	1141
	3.5	245	389	497	585	659	914	1068	1168	1240	1290	1330
	4.0	260	416	533	630	711	998	1179	1300	1390	1458	1505

Flat terrain	1.0	139	229	302	367	426	672	873	1052	1215	1368	1512
	1.5	177	293	388	471	547	862	1122	1352	1560	1752	1939
	2.0	204	338	448	545	632	998	1299	1564	1805	2028	2240
	2.5	226	375	497	604	701	1108	1440	1736	2005	2250	2485
	3.0	245	406	538	654	760	1200	1560	1880	2170	2442	2695
	3.5	261	433	574	698	811	1282	1668	2008	2320	2610	2877
	4.0	276	458	607	738	858	1354	1764	2124	2450	2760	3045

Downhill 2%	1.0	166	304	433	560	684	1214	1689	2140	2580	3006	3430
	1.5	200	354	496	631	763	1328	1833	2308	2770	3222	3661
	2.0	224	393	545	688	826	1422	1950	2448	2930	3396	3850
	2.5	244	426	586	736	880	1502	2052	2572	3065	3546	4018
	3.0	262	453	622	778	928	1574	2145	2676	3190	3684	4165
	3.5	277	478	654	817	971	1638	2226	2776	3300	3810	4305
	4.0	291	501	683	851	1010	1698	2304	2868	3405	3924	4424

Minimum considered pressure 0.5 bar

Due to lateral filling time and flushing effectiveness it is not recommended to exceed 800 meters lateral length

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

PCJ™ AS drippers • On PE pipe 25/4 • ID 21.2 mm • Kd 0.10 • Flow rate 3.0 l/h

	Distance between drippers (meter)											
	Inlet pressure (bar)	0.2	0.4	0.6	0.8	1.0	2.0	3.0	4.0	5.0	6.0	7.0
Uphill 2%	1.0	91	134	161	180	194	226	237	244	245	246	252
	1.5	123	190	238	274	303	388	429	452	465	474	483
	2.0	146	229	290	339	379	512	585	628	660	678	693
	2.5	164	260	332	390	440	610	711	780	825	864	889
	3.0	178	285	367	434	490	692	822	912	975	1026	1064
	3.5	191	308	397	471	535	766	918	1024	1105	1170	1218
	4.0	203	328	424	504	574	830	1002	1128	1225	1302	1365

Flat terrain	1.0	107	176	233	283	329	518	675	812	940	1056	1169
	1.5	136	226	299	363	422	666	867	1044	1205	1356	1498
	2.0	157	261	346	420	488	770	1002	1208	1395	1572	1736
	2.5	174	289	383	466	541	854	1113	1340	1550	1740	1925
	3.0	188	313	415	505	586	926	1206	1452	1680	1884	2086
	3.5	201	334	443	539	626	990	1287	1552	1790	2016	2226
	4.0	212	353	468	570	662	1046	1362	1640	1895	2130	2352

Downhill 2%	1.0	123	221	311	399	484	886	1221	1540	1850	2148	2443
	1.5	150	262	364	459	551	976	1335	1676	2000	2316	2625
	2.0	169	293	403	506	603	1050	1431	1788	2130	2460	2779
	2.5	185	319	436	545	648	1114	1512	1884	2235	2580	2912
	3.0	198	341	465	578	686	1170	1584	1968	2335	2688	3031
	3.5	210	360	490	609	721	1222	1650	2044	2425	2784	3136
	4.0	221	378	513	637	753	1268	1710	2116	2505	2874	3234

Minimum considered pressure 0.5 bar

Due to lateral filling time and flushing effectiveness it is not recommended to exceed 800 meters lateral length

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

PCJ™ AS drippers • On PE pipe 25/4 • ID 21.2 mm • Kd 0.10 • Flow rate 4.0 l/h

	Distance between drippers (meter)											
	Inlet pressure (bar)	0.2	0.4	0.6	0.8	1.0	2.0	3.0	4.0	5.0	6.0	7.0
Uphill 2%	1.0	78	117	143	162	177	216	231	240	245	246	245
	1.5	104	163	206	239	267	356	402	432	450	462	469
	2.0	123	195	249	293	330	458	534	584	620	648	665
	2.5	137	220	283	335	380	538	642	712	765	804	840
	3.0	150	241	311	370	421	608	732	824	890	948	987
	3.5	160	260	337	401	457	666	810	920	1005	1074	1127
	4.0	170	276	359	429	490	720	882	1004	1105	1182	1253

Flat terrain	1.0	89	147	194	236	274	432	561	676	785	882	973
	1.5	113	188	249	302	351	554	723	868	1005	1128	1246
	2.0	131	217	287	350	406	642	834	1008	1160	1308	1442
	2.5	145	240	319	388	450	712	927	1116	1290	1452	1603
	3.0	156	260	345	420	488	772	1005	1208	1395	1572	1736
	3.5	167	278	368	448	521	824	1071	1292	1490	1680	1855
	4.0	176	293	389	474	551	870	1134	1364	1575	1776	1960

Downhill 2%	1.0	100	178	248	316	382	698	975	1228	1465	1698	1932
	1.5	122	213	293	369	441	776	1074	1340	1595	1848	2086
	2.0	139	239	327	409	486	842	1152	1436	1705	1962	2219
	2.5	152	261	355	442	524	896	1221	1516	1795	2064	2331
	3.0	163	280	380	471	557	944	1281	1588	1880	2160	2429
	3.5	173	296	401	497	587	988	1338	1656	1955	2244	2520
	4.0	182	311	421	520	613	1028	1389	1716	2025	2316	2604

Minimum considered pressure 0.5 bar

Due to lateral filling time and flushing effectiveness it is not recommended to exceed 800 meters lateral length

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

PCJ™ AS drippers • On PE pipe 25/4 • ID 21.2 mm • Kd 0.10 • Flow rate 8.0 l/h

	Distance between drippers (meter)											
	Inlet pressure (bar)	0.2	0.4	0.6	0.8	1.0	2.0	3.0	4.0	5.0	6.0	7.0
Uphill 2%	1.0	52	82	103	120	134	178	201	216	225	234	238
	1.5	69	110	142	168	190	270	321	360	385	408	420
	2.0	80	130	169	201	229	334	408	460	505	540	567
	2.5	89	146	190	227	260	384	474	544	600	648	686
	3.0	97	159	208	249	286	426	531	612	680	738	784
	3.5	104	170	223	268	308	464	579	672	750	816	875
	4.0	110	181	237	286	328	496	624	724	810	888	952

Flat terrain	1.0	57	94	125	151	176	278	363	436	505	570	630
	1.5	72	120	160	194	226	356	465	560	645	726	805
	2.0	83	139	185	225	261	412	537	648	750	840	931
	2.5	92	154	205	249	289	458	597	720	830	936	1029
	3.0	100	167	221	270	313	496	645	780	900	1014	1120
	3.5	107	178	236	288	335	530	690	832	960	1080	1190
	4.0	112	188	250	304	354	560	729	880	1015	1140	1260

Downhill 2%	1.0	61	107	147	185	221	390	549	708	855	984	1113
	1.5	76	131	178	222	262	450	621	788	940	1080	1218
	2.0	87	148	201	249	294	496	678	852	1015	1164	1309
	2.5	95	162	220	271	320	534	726	908	1075	1230	1379
	3.0	103	174	236	290	342	568	768	956	1130	1290	1449
	3.5	109	185	250	308	362	598	804	1000	1180	1350	1512
	4.0	115	195	263	323	379	624	840	1040	1225	1398	1568

Minimum considered pressure 0.5 bar

Due to lateral filling time and flushing effectiveness it is not recommended to exceed 800 meters lateral length

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

PCJ™ AS drippers • On PE pipe 25/4 • ID 21.2 mm • Kd 0.10 • Flow rate 12.0 l/h

	Distance between drippers (meter)											
	Inlet pressure (bar)	0.2	0.4	0.6	0.8	1.0	2.0	3.0	4.0	5.0	6.0	7.0
Uphill 2%	1.0	41	65	83	98	111	154	180	196	210	216	224
	1.5	54	87	113	134	153	224	273	308	335	360	378
	2.0	62	102	133	159	182	272	336	388	430	462	490
	2.5	69	114	149	179	206	310	387	448	500	546	581
	3.0	75	124	163	196	225	342	429	500	560	612	658
	3.5	80	133	175	210	243	370	468	548	615	672	728
	4.0	85	140	185	223	258	394	501	588	660	726	791

Flat terrain	1.0	44	72	96	117	136	216	279	340	390	438	483
	1.5	56	93	123	150	174	276	360	432	500	564	623
	2.0	64	107	142	174	202	320	417	500	580	654	721
	2.5	71	119	158	192	223	354	462	556	640	720	798
	3.0	77	128	171	208	242	384	498	604	695	780	861
	3.5	82	137	182	222	258	410	534	644	745	834	924
	4.0	86	145	193	234	273	432	564	680	785	882	973

Downhill 2%	1.0	46	80	110	137	163	282	393	500	605	714	812
	1.5	58	99	134	166	196	330	453	568	680	792	896
	2.0	66	112	152	188	221	368	498	624	740	858	966
	2.5	73	124	167	206	241	398	537	668	790	912	1029
	3.0	79	133	179	221	259	426	573	708	835	960	1078
	3.5	84	142	190	234	274	450	603	744	875	1002	1127
	4.0	88	149	200	246	288	472	630	776	915	1044	1169

Minimum considered pressure 0.5 bar

Due to lateral filling time and flushing effectiveness it is not recommended to exceed 800 meters lateral length

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

PCJ™ AS drippers • On PE pipe 25/4 • ID 21.2 mm • Kd 0.10 • Flow rate 15.0 l/h

	Distance between drippers (meter)											
	Inlet pressure (bar)	0.2	0.4	0.6	0.8	1.0	2.0	3.0	4.0	5.0	6.0	7.0
Uphill 2%	1.0	36	47	57	66	74	81	87	94	99	210	217
	1.5	47	62	76	88	99	109	118	127	135	336	350
	2.0	54	73	89	103	116	128	140	150	160	420	455
	2.5	60	81	99	116	130	144	157	169	181	492	532
	3.0	65	88	108	126	142	157	171	185	197	552	595
	3.5	70	94	116	135	152	169	184	198	212	606	651
	4.0	74	100	122	143	161	179	195	211	225	648	707

Flat terrain	1.0	38	51	63	74	83	93	102	110	118	384	420
	1.5	48	65	80	94	107	119	130	141	151	492	539
	2.0	56	75	93	109	124	137	150	163	175	564	623
	2.5	62	83	103	121	137	152	166	181	194	630	693
	3.0	67	90	111	131	148	165	181	195	210	678	749
	3.5	71	96	119	139	158	176	193	209	224	726	798
	4.0	75	102	126	147	167	186	203	221	237	768	847

Downhill 2%	1.0	40	55	68	82	94	105	117	128	138	588	672
	1.5	50	68	85	101	115	129	142	155	168	660	749
	2.0	57	78	97	115	131	146	161	176	189	720	812
	2.5	63	86	106	126	143	160	177	193	207	768	868
	3.0	68	93	115	136	154	172	190	206	223	810	910
	3.5	72	98	122	144	164	183	202	219	236	852	959
	4.0	76	104	129	152	173	193	212	230	248	888	994

Minimum considered pressure 0.5 bar

Due to lateral filling time and flushing effectiveness it is not recommended to exceed 800 meters lateral length

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

PCJ™ LCNL drippers • On PE pipe 12/4 • ID 9.8 mm • Kd 1.65 • Flow rate 0.5 l/h

	Distance between drippers (meter)											
	Inlet pressure (bar)	0.2	0.4	0.6	0.8	1.0	2.0	3.0	4.0	5.0	6.0	7.0
Uphill 2%	1.5	60	101	130	151	168	212	228	236	245	246	245
	2.0	79	137	182	218	248	346	396	428	445	462	469
	2.5	92	162	218	264	304	442	525	576	615	642	665
	3.0	102	181	245	300	347	518	627	700	760	798	833
	3.5	111	198	269	330	384	580	711	808	880	936	980
	4.0	118	212	290	357	415	636	786	900	990	1056	1113

Flat terrain	1.5	66	120	167	209	248	408	540	656	765	864	952
	2.0	84	153	213	266	316	524	693	844	980	1104	1225
	2.5	96	176	245	307	365	604	801	976	1130	1278	1414
	3.0	106	194	271	340	403	670	888	1080	1255	1416	1568
	3.5	114	210	293	368	436	724	963	1168	1360	1536	1701
	4.0	122	223	312	392	465	774	1026	1248	1450	1638	1813

Downhill 2%	1.5	72	140	206	270	334	642	927	1176	1415	1650	1876
	2.0	89	169	244	317	387	718	1017	1284	1540	1788	2030
	2.5	100	190	273	352	427	778	1095	1376	1645	1902	2156
	3.0	110	207	296	381	461	830	1158	1456	1735	2004	2268
	3.5	118	222	317	406	490	876	1218	1524	1815	2094	2366
	4.0	125	235	335	428	516	916	1269	1588	1885	2172	2450

Minimum considered pressure 1.0 bar

Due to lateral filling time and flushing effectiveness it is not recommended to exceed 800 meters lateral length

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

PCJ™ LCNL drippers • On PE pipe 12/4 • ID 9.8 mm • Kd 1.65 • Flow rate 1.2 l/h

	Distance between drippers (meter)											
	Inlet pressure (bar)	0.2	0.4	0.6	0.8	1.0	2.0	3.0	4.0	5.0	6.0	7.0
Uphill 2%	1.5	35	62	83	100	114	162	189	208	220	228	231
	2.0	46	81	110	136	158	238	291	332	360	384	399
	2.5	53	95	130	161	187	290	363	420	460	498	525
	3.0	58	106	145	180	211	332	420	488	545	594	630
	3.5	63	114	158	197	231	366	465	544	615	672	721
	4.0	67	122	169	211	248	396	507	596	670	738	798

Flat terrain	1.5	37	68	95	119	141	234	309	376	440	492	546
	2.0	47	86	121	151	180	298	396	484	560	636	700
	2.5	54	99	139	174	207	346	459	556	650	732	812
	3.0	60	110	154	193	229	382	507	616	720	810	896
	3.5	64	118	166	209	248	414	549	668	780	876	973
	4.0	69	126	176	222	264	442	585	716	830	936	1036

Downhill 2%	1.5	39	74	107	138	169	312	447	576	705	828	938
	2.0	49	92	131	167	203	362	510	648	785	918	1036
	2.5	55	104	148	189	227	402	558	708	850	984	1113
	3.0	61	114	161	206	248	434	600	756	905	1044	1176
	3.5	66	122	173	221	265	462	636	796	950	1098	1232
	4.0	70	130	184	234	281	488	669	836	995	1146	1288

Minimum considered pressure 1.0 bar

Due to lateral filling time and flushing effectiveness it is not recommended to exceed 800 meters lateral length

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

PCJ™ LCNL drippers • On PE pipe 12/4 • ID 9.8 mm • Kd 1.65 • Flow rate 2.0 l/h

	Distance between drippers (meter)											
	Inlet pressure (bar)	0.2	0.4	0.6	0.8	1.0	2.0	3.0	4.0	5.0	6.0	7.0
Uphill 2%	1.5	26	46	62	75	88	130	159	176	190	204	210
	2.0	33	59	82	101	118	184	231	268	295	318	343
	2.5	38	69	95	118	139	220	282	328	370	402	434
	3.0	42	76	106	132	156	250	321	376	425	468	504
	3.5	45	83	115	144	170	274	354	420	475	522	567
	4.0	48	88	123	154	182	294	381	456	515	570	623

Flat terrain	1.5	27	49	68	86	102	168	225	272	315	360	399
	2.0	34	62	86	109	129	216	288	348	405	456	511
	2.5	39	71	100	126	149	248	330	404	470	528	588
	3.0	43	79	110	138	165	276	366	448	520	588	651
	3.5	46	85	119	150	178	298	396	484	560	636	707
	4.0	49	90	127	160	190	318	423	516	600	678	749

Downhill 2%	1.5	28	52	74	96	116	210	294	380	460	540	616
	2.0	35	64	92	118	141	248	345	436	525	606	693
	2.5	39	74	104	133	160	278	384	480	575	666	749
	3.0	43	81	115	146	175	302	414	516	615	708	805
	3.5	47	87	123	156	187	324	441	552	655	750	847
	4.0	50	92	131	166	199	342	465	580	685	786	889

Minimum considered pressure 1.0 bar

Due to lateral filling time and flushing effectiveness it is not recommended to exceed 800 meters lateral length

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

PCJ™ LCNL drippers • On PE pipe 12/4 • ID 9.8 mm • Kd 1.65 • Flow rate 3.0 l/h

	Distance between drippers (meter)											
	Inlet pressure (bar)	0.2	0.4	0.6	0.8	1.0	2.0	3.0	4.0	5.0	6.0	7.0
Uphill 2%	1.5	20	36	49	60	70	108	132	152	170	180	189
	2.0	25	46	64	79	93	148	189	220	250	270	294
	2.5	29	53	74	92	109	176	225	268	305	336	364
	3.0	32	59	82	103	122	196	255	304	345	384	420
	3.5	35	64	89	112	132	216	279	336	380	426	462
	4.0	37	68	95	119	141	232	303	360	415	462	504

Flat terrain	1.5	20	38	53	66	78	130	174	212	245	276	308
	2.0	26	48	67	84	100	166	222	272	315	354	392
	2.5	30	55	77	97	115	192	255	312	365	408	455
	3.0	33	60	85	106	127	212	282	344	400	456	504
	3.5	35	65	92	115	137	230	306	372	435	492	546
	4.0	38	69	97	123	146	246	327	400	465	522	581

Downhill 2%	1.5	21	40	56	72	87	154	216	276	330	384	441
	2.0	26	49	70	89	107	186	255	320	385	444	504
	2.5	30	56	79	101	121	210	288	356	425	492	553
	3.0	33	62	87	110	133	228	312	388	460	528	595
	3.5	36	66	94	119	143	246	333	412	490	558	630
	4.0	38	70	100	126	151	260	351	436	515	588	665

Minimum considered pressure 1.0 bar

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

PCJ™ LCNL drippers • On PE pipe 12/4 • ID 9.8 mm • Kd 1.65 • Flow rate 4.0 l/h

	Distance between drippers (meter)											
	Inlet pressure (bar)	0.2	0.4	0.6	0.8	1.0	2.0	3.0	4.0	5.0	6.0	7.0
Uphill 2%	1.5	17	30	41	50	59	92	117	136	150	162	175
	2.0	21	38	53	66	78	126	162	192	215	240	259
	2.5	24	44	62	78	91	148	192	228	260	288	315
	3.0	27	49	68	86	102	166	216	260	295	330	357
	3.5	29	53	74	94	111	182	237	284	325	366	399
	4.0	31	57	79	100	118	194	255	308	350	396	434

Flat terrain	1.5	17	31	44	55	65	108	144	176	205	234	259
	2.0	21	40	55	70	83	138	186	224	260	294	329
	2.5	25	45	64	80	96	160	213	260	305	342	378
	3.0	27	50	70	89	106	178	237	288	335	378	420
	3.5	29	54	76	96	114	192	255	312	365	408	455
	4.0	31	58	81	102	122	204	273	332	385	438	483

Downhill 2%	1.5	17	32	46	59	71	126	174	220	265	306	350
	2.0	22	40	58	73	88	152	210	260	310	360	406
	2.5	25	46	65	83	100	172	234	292	345	396	448
	3.0	27	51	72	91	110	188	255	316	375	432	483
	3.5	29	55	77	98	118	202	273	340	400	456	511
	4.0	31	58	82	105	125	214	291	360	420	480	539

Minimum considered pressure 1.0 bar

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

PCJ™ LCNL drippers • On PE pipe 12/4 • ID 9.8 mm • Kd 1.65 • Flow rate 8.0 l/h

	Distance between drippers (meter)											
	Inlet pressure (bar)	0.2	0.4	0.6	0.8	1.0	2.0	3.0	4.0	5.0	6.0	7.0
Uphill 2%	1.5	11	20	27	34	40	64	81	96	110	120	133
	2.0	14	25	35	43	51	84	111	132	150	168	182
	2.5	16	28	40	50	60	98	129	156	180	198	217
	3.0	17	32	44	56	66	110	144	176	200	222	245
	3.5	18	34	48	60	72	120	156	188	220	246	273
	4.0	20	36	51	64	77	128	168	204	235	264	294

Flat terrain	1.5	11	20	28	35	42	70	93	116	135	150	168
	2.0	14	25	35	45	53	90	120	144	170	192	217
	2.5	16	29	41	51	61	104	138	168	195	222	245
	3.0	17	32	45	57	68	114	153	184	215	246	273
	3.5	19	34	49	62	73	124	165	200	235	264	294
	4.0	20	37	52	66	78	132	177	216	250	282	315

Downhill 2%	1.5	11	20	29	37	44	78	105	132	160	180	203
	2.0	14	26	37	46	55	96	129	160	190	216	245
	2.5	16	29	41	53	63	108	147	180	215	246	273
	3.0	17	32	46	58	69	118	159	200	235	264	301
	3.5	19	35	49	62	75	128	171	212	250	282	322
	4.0	20	37	52	66	79	136	183	224	265	300	336

Minimum considered pressure 1.0 bar

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

PCJ™ LCNL drippers • On PE pipe 12/4 • ID 9.8 mm • Kd 1.65 • Flow rate 12.0 l/h

	Distance between drippers (meter)											
	Inlet pressure (bar)	0.2	0.4	0.6	0.8	1.0	2.0	3.0	4.0	5.0	6.0	7.0
Uphill 2%	1.5	8	15	21	26	31	50	66	80	90	102	112
	2.0	10	19	27	34	40	66	87	104	120	132	147
	2.5	12	22	31	39	46	76	102	124	140	162	175
	3.0	13	24	34	43	51	86	114	136	160	180	196
	3.5	14	26	37	46	56	92	123	148	175	192	217
	4.0	15	28	40	50	59	100	132	160	185	210	231

Flat terrain	1.5	8	15	22	27	33	54	72	88	105	120	133
	2.0	10	20	28	34	41	70	93	112	130	150	168
	2.5	12	22	31	40	47	80	108	132	150	174	189
	3.0	13	24	35	44	52	88	117	144	170	192	210
	3.5	14	26	37	47	56	96	129	156	180	204	231
	4.0	15	28	40	50	60	102	135	168	195	222	245

Downhill 2%	1.5	8	16	22	28	34	58	81	100	120	138	154
	2.0	11	20	28	35	42	72	99	124	145	168	182
	2.5	12	22	32	41	48	82	111	140	165	186	210
	3.0	13	25	35	45	53	90	123	152	180	204	224
	3.5	14	27	38	48	57	98	132	164	190	216	245
	4.0	15	28	40	51	61	104	141	172	205	228	259

Minimum considered pressure 1.0 bar

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

PCJ™ LCNL drippers • On PE pipe 16/4 • ID 13.2 mm • Kd 0.39 • Flow rate 0.5 l/h

	Distance between drippers (meter)											
	Inlet pressure (bar)	0.2	0.4	0.6	0.8	1.0	2.0	3.0	4.0	5.0	6.0	7.0
Uphill 2%	1.5	111	161	189	206	217	238	246	248	250	252	252
	2.0	153	237	292	332	361	436	465	480	485	492	497
	2.5	181	289	364	422	466	596	657	688	705	720	728
	3.0	204	330	421	492	550	730	822	876	910	930	945
	3.5	223	364	468	551	620	846	969	1044	1095	1128	1155
	4.0	239	393	509	602	681	946	1101	1200	1265	1314	1351

Flat terrain	1.5	136	232	312	382	446	710	927	1120	1295	1458	1610
	2.0	174	297	399	489	571	912	1191	1436	1660	1866	2065
	2.5	200	343	461	566	660	1054	1377	1664	1920	2160	2387
	3.0	221	379	511	626	732	1170	1527	1844	2130	2400	2653
	3.5	239	410	553	678	792	1266	1656	2000	2310	2598	2870
	4.0	254	438	590	724	846	1352	1767	2136	2465	2778	3066

Downhill 2%	1.5	162	309	450	588	725	1298	1818	2312	2795	3270	3731
	2.0	195	360	513	661	804	1416	1968	2492	2995	3492	3976
	2.5	218	398	562	718	869	1514	2091	2640	3165	3678	4179
	3.0	238	430	604	767	925	1598	2199	2764	3310	3834	4354
	3.5	255	458	640	810	974	1674	2295	2880	3440	3978	4508
	4.0	269	483	673	850	1018	1742	2382	2984	3555	4110	4648

Minimum considered pressure 1.0 bar

Due to lateral filling time and flushing effectiveness it is not recommended to exceed 800 meters lateral length

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

PCJ™ LCNL drippers • On PE pipe 16/4 • ID 13.2 mm • Kd 0.39 • Flow rate 1.2 l/h

	Distance between drippers (meter)											
	Inlet pressure (bar)	0.2	0.4	0.6	0.8	1.0	2.0	3.0	4.0	5.0	6.0	7.0
Uphill 2%	1.5	69	108	135	155	170	210	228	236	240	246	245
	2.0	92	149	191	226	253	344	393	424	445	456	469
	2.5	107	177	230	274	311	440	519	572	610	636	658
	3.0	120	199	261	313	357	516	618	692	745	792	819
	3.5	130	218	287	345	395	580	705	796	865	924	966
	4.0	139	234	310	373	428	634	777	888	970	1038	1099

Flat terrain	1.5	77	132	178	218	255	406	531	640	740	834	924
	2.0	98	169	227	279	326	522	681	824	950	1074	1183
	2.5	113	195	263	322	377	602	789	952	1100	1242	1372
	3.0	125	216	291	357	417	668	873	1056	1220	1374	1519
	3.5	135	233	315	386	452	724	948	1144	1325	1488	1645
	4.0	144	248	336	413	483	774	1011	1220	1415	1590	1757

Downhill 2%	1.5	85	157	223	286	347	642	909	1144	1370	1590	1806
	2.0	105	189	264	335	402	718	1002	1252	1495	1728	1953
	2.5	119	212	295	372	445	778	1077	1344	1595	1842	2079
	3.0	130	232	321	403	480	830	1143	1420	1685	1938	2184
	3.5	140	248	343	430	511	876	1200	1488	1760	2028	2282
	4.0	149	263	362	454	538	918	1251	1552	1835	2106	2366

Minimum considered pressure 1.0 bar

Due to lateral filling time and flushing effectiveness it is not recommended to exceed 800 meters lateral length

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

PCJ™ LCNL drippers • On PE pipe 16/4 • ID 13.2 mm • Kd 0.39 • Flow rate 2.0 l/h

	Distance between drippers (meter)											
	Inlet pressure (bar)	0.2	0.4	0.6	0.8	1.0	2.0	3.0	4.0	5.0	6.0	7.0
Uphill 2%	1.5	51	83	106	123	138	184	207	220	230	234	238
	2.0	67	111	145	173	197	280	333	368	395	414	427
	2.5	78	131	172	207	237	348	423	480	520	558	581
	3.0	87	146	194	234	269	402	495	568	625	672	707
	3.5	94	160	212	257	296	446	555	640	710	768	819
	4.0	101	171	228	277	319	486	606	704	785	852	910
Flat terrain	1.5	55	95	128	158	184	294	384	464	535	606	665
	2.0	70	121	164	201	235	376	492	596	690	774	854
	2.5	81	140	189	232	272	436	570	688	795	894	987
	3.0	90	155	209	258	301	482	633	764	880	996	1099
	3.5	97	168	227	278	326	522	684	828	955	1074	1190
	4.0	103	179	242	298	348	558	732	884	1020	1152	1267
Downhill 2%	1.5	60	108	151	193	232	418	594	768	920	1062	1204
	2.0	74	132	183	230	275	478	666	848	1010	1164	1316
	2.5	84	149	206	258	307	526	726	916	1090	1248	1407
	3.0	92	163	225	281	333	566	777	972	1155	1320	1484
	3.5	99	176	241	301	356	602	819	1024	1210	1386	1554
	4.0	106	186	256	318	377	634	861	1072	1265	1446	1624

Minimum considered pressure 1.0 bar

Due to lateral filling time and flushing effectiveness it is not recommended to exceed 800 meters lateral length

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

PCJ™ LCNL drippers • On PE pipe 16/4 • ID 13.2 mm • Kd 0.39 • Flow rate 3.0 l/h

	Distance between drippers (meter)											
	Inlet pressure (bar)	0.2	0.4	0.6	0.8	1.0	2.0	3.0	4.0	5.0	6.0	7.0
Uphill 2%	1.5	40	66	85	101	114	160	186	204	215	222	231
	2.0	52	87	115	138	159	232	282	320	350	372	392
	2.5	61	102	136	164	189	284	351	404	445	480	511
	3.0	67	114	152	185	213	324	405	472	525	570	609
	3.5	73	124	166	202	234	358	450	524	590	642	693
	4.0	78	133	178	217	251	388	489	576	645	708	763
Flat terrain	1.5	43	73	99	122	142	228	297	360	415	468	518
	2.0	54	94	126	155	181	290	381	460	530	600	665
	2.5	62	108	146	179	210	336	441	532	615	696	763
	3.0	69	119	161	198	232	372	489	588	680	768	847
	3.5	74	129	175	215	251	404	528	640	740	834	917
	4.0	79	138	186	229	268	430	564	684	790	888	980
Downhill 2%	1.5	45	81	113	142	171	300	423	540	660	774	875
	2.0	56	100	137	172	205	352	486	612	735	858	966
	2.5	64	113	156	194	231	390	534	668	800	924	1043
	3.0	70	124	170	213	251	422	573	716	850	984	1106
	3.5	76	134	183	228	269	450	609	756	895	1032	1162
	4.0	81	142	194	242	285	476	642	796	940	1080	1211

Minimum considered pressure 1.0 bar

Due to lateral filling time and flushing effectiveness it is not recommended to exceed 800 meters lateral length

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

PCJ™ LCNL drippers • On PE pipe 16/4 • ID 13.2 mm • Kd 0.39 • Flow rate 4.0 l/h

	Distance between drippers (meter)											
	Inlet pressure (bar)	0.2	0.4	0.6	0.8	1.0	2.0	3.0	4.0	5.0	6.0	7.0
Uphill 2%	1.5	34	56	73	87	99	142	168	188	200	210	217
	2.0	44	74	97	118	135	202	249	284	315	336	357
	2.5	50	86	114	138	160	244	306	352	395	426	455
	3.0	56	96	128	155	180	276	348	408	460	498	539
	3.5	61	104	139	170	197	304	387	452	510	564	609
	4.0	65	111	149	182	211	328	417	492	555	612	665
Flat terrain	1.5	35	61	82	101	118	190	249	300	345	390	434
	2.0	45	78	105	129	151	242	318	384	445	498	553
	2.5	52	90	121	149	174	280	366	444	515	576	637
	3.0	57	99	134	165	193	310	408	492	570	642	707
	3.5	62	107	145	178	209	336	441	532	615	696	770
	4.0	66	114	155	190	223	358	471	568	660	738	819
Downhill 2%	1.5	37	66	92	115	138	240	336	428	515	606	693
	2.0	46	82	113	141	167	284	390	488	585	678	770
	2.5	53	93	128	159	189	318	432	536	640	738	833
	3.0	58	102	140	174	207	346	465	580	685	786	889
	3.5	63	110	151	188	222	368	495	616	725	834	938
	4.0	67	117	160	199	235	390	522	644	760	870	980

Minimum considered pressure 1.0 bar

Due to lateral filling time and flushing effectiveness it is not recommended to exceed 800 meters lateral length

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

PCJ™ LCNL drippers • On PE pipe 16/4 • ID 13.2 mm • Kd 0.39 • Flow rate 8.0 l/h

	Distance between drippers (meter)											
	Inlet pressure (bar)	0.2	0.4	0.6	0.8	1.0	2.0	3.0	4.0	5.0	6.0	7.0
Uphill 2%	1.5	22	37	49	59	68	102	126	144	160	174	182
	2.0	28	48	64	78	91	140	177	204	230	252	273
	2.5	32	56	75	91	106	166	210	248	280	312	336
	3.0	36	62	83	102	119	186	237	280	320	354	385
	3.5	39	67	91	111	129	204	261	312	355	390	427
	4.0	41	72	97	118	138	218	282	336	380	426	462
Flat terrain	1.5	23	39	53	65	76	122	159	192	225	252	280
	2.0	29	50	67	83	97	156	204	248	285	324	357
	2.5	33	57	77	96	112	180	237	288	330	372	413
	3.0	36	63	86	106	124	200	261	316	365	414	455
	3.5	39	68	93	114	134	216	285	344	395	450	497
	4.0	42	73	99	122	143	230	303	368	425	480	525
Downhill 2%	1.5	23	41	57	71	84	144	195	248	295	342	392
	2.0	29	52	71	88	104	174	234	292	345	396	448
	2.5	33	59	80	100	118	196	264	324	385	438	497
	3.0	37	65	89	110	130	214	288	352	415	474	532
	3.5	40	70	95	118	139	230	306	376	445	504	567
	4.0	42	74	101	126	148	244	324	400	465	534	595

Minimum considered pressure 1.0 bar

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

PCJ™ LCNL drippers • On PE pipe 16/4 • ID 13.2 mm • Kd 0.39 • Flow rate 12.0 l/h

	Distance between drippers (meter)											
	Inlet pressure (bar)	0.2	0.4	0.6	0.8	1.0	2.0	3.0	4.0	5.0	6.0	7.0
Uphill 2%	1.5	17	29	38	46	54	82	102	120	135	144	154
	2.0	22	37	50	62	71	110	141	168	190	210	224
	2.5	25	43	58	71	83	130	168	200	225	252	273
	3.0	28	48	65	79	93	146	189	224	255	288	308
	3.5	30	52	70	86	101	160	207	248	280	312	343
	4.0	32	56	75	92	108	172	222	264	305	336	371
Flat terrain	1.5	17	30	41	50	59	94	123	152	175	198	217
	2.0	22	38	52	64	75	120	159	192	225	252	280
	2.5	25	44	60	74	87	140	183	220	255	288	322
	3.0	28	49	67	82	96	154	204	244	285	318	357
	3.5	30	53	72	89	104	168	219	264	310	348	385
	4.0	32	56	76	94	111	178	234	284	330	372	413
Downhill 2%	1.5	18	31	43	54	64	108	147	184	215	252	280
	2.0	22	39	54	67	79	132	177	220	255	294	329
	2.5	26	45	62	77	90	148	198	244	290	330	371
	3.0	28	50	68	84	99	164	219	268	315	354	399
	3.5	30	54	73	90	107	176	234	284	335	384	427
	4.0	32	57	78	97	114	186	246	304	355	402	448

Minimum considered pressure 1.0 bar

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

PCJ™ LCNL drippers • On PE pipe 20/4 • ID 17.0 mm • Kd 0.13 • Flow rate 0.5 l/h

	Distance between drippers (meter)											
	Inlet pressure (bar)	0.2	0.4	0.6	0.8	1.0	2.0	3.0	4.0	5.0	6.0	7.0
Uphill 2%	1.5	161	206	224	233	238	248	249	252	250	252	252
	2.0	236	331	383	414	435	478	489	496	495	498	504
	2.5	288	420	501	556	595	686	717	728	735	744	742
	3.0	329	490	596	672	728	872	927	956	970	978	987
	3.5	363	550	676	770	842	1042	1125	1168	1195	1206	1218
	4.0	393	601	746	856	942	1196	1311	1372	1410	1434	1449
Flat terrain	1.5	232	380	502	609	706	1112	1446	1740	2005	2256	2492
	2.0	296	487	644	781	906	1426	1854	2232	2580	2898	3199
	2.5	342	563	745	904	1048	1652	2148	2588	2985	3354	3703
	3.0	379	624	826	1002	1163	1832	2382	2868	3310	3726	4109
	3.5	410	676	894	1086	1260	1986	2583	3112	3590	4038	4459
	4.0	437	722	955	1159	1345	2122	2760	3324	3835	4314	4760
Downhill 2%	1.5	308	585	848	1074	1290	2296	3240	4152	5045	5922	6790
	2.0	359	658	935	1178	1408	2474	3465	4416	5340	6246	7140
	2.5	398	716	1006	1262	1505	2620	3648	4632	5585	6522	7434
	3.0	430	764	1067	1335	1590	2746	3807	4820	5800	6756	7693
	3.5	458	808	1122	1401	1664	2860	3951	4988	5990	6966	7924
	4.0	482	846	1171	1460	1732	2962	4080	5140	6165	7158	8134

Minimum considered pressure 1.0 bar

Due to lateral filling time and flushing effectiveness it is not recommended to exceed 800 meters lateral length

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

PCJ™ LCNL drippers • On PE pipe 20/4 • ID 17.0 mm • Kd 0.13 • Flow rate 1.2 l/h

	Distance between drippers (meter)											
	Inlet pressure (bar)	0.2	0.4	0.6	0.8	1.0	2.0	3.0	4.0	5.0	6.0	7.0
Uphill 2%	1.5	108	154	181	198	210	236	243	248	250	252	252
	2.0	149	225	276	314	342	422	453	472	480	486	490
	2.5	177	273	342	395	438	568	633	668	690	708	714
	3.0	199	312	394	459	513	688	786	844	885	912	931
	3.5	218	344	437	513	577	792	918	1000	1055	1098	1127
	4.0	234	372	475	560	632	882	1035	1140	1215	1266	1309

Flat terrain	1.5	132	217	287	348	404	636	828	996	1150	1296	1428
	2.0	168	278	367	446	518	816	1062	1280	1475	1662	1834
	2.5	194	321	425	516	599	946	1230	1480	1710	1920	2121
	3.0	215	356	471	573	665	1048	1365	1644	1895	2130	2352
	3.5	233	385	510	620	720	1136	1479	1780	2055	2310	2555
	4.0	248	411	545	662	769	1214	1578	1900	2195	2472	2723

Downhill 2%	1.5	157	284	404	522	636	1136	1575	1996	2400	2802	3192
	2.0	189	333	465	590	712	1244	1713	2156	2585	3000	3409
	2.5	212	370	512	645	773	1332	1824	2288	2735	3168	3591
	3.0	232	401	551	691	825	1410	1923	2404	2865	3312	3752
	3.5	248	428	586	732	871	1478	2010	2508	2985	3444	3892
	4.0	263	452	616	768	912	1540	2088	2600	3090	3564	4018

Minimum considered pressure 1.0 bar

Due to lateral filling time and flushing effectiveness it is not recommended to exceed 800 meters lateral length

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

PCJ™ LCNL drippers • On PE pipe 20/4 • ID 17.0 mm • Kd 0.13 • Flow rate 2.0 l/h

	Distance between drippers (meter)											
	Inlet pressure (bar)	0.2	0.4	0.6	0.8	1.0	2.0	3.0	4.0	5.0	6.0	7.0
Uphill 2%	1.5	82	123	149	168	183	220	234	240	245	246	252
	2.0	111	172	217	251	279	368	414	440	455	468	476
	2.5	131	206	263	308	346	476	552	600	635	660	679
	3.0	146	233	299	354	399	562	666	736	790	828	854
	3.5	159	256	330	391	444	636	762	852	920	972	1015
	4.0	171	276	356	424	483	700	846	956	1040	1104	1162

Flat terrain	1.5	95	156	207	251	291	460	597	720	830	936	1036
	2.0	121	200	265	322	374	590	768	924	1070	1200	1323
	2.5	140	231	307	373	432	682	888	1068	1235	1392	1533
	3.0	155	256	340	413	480	758	984	1188	1370	1542	1701
	3.5	167	278	368	447	520	820	1068	1288	1485	1668	1848
	4.0	178	296	392	478	555	876	1140	1372	1585	1782	1967

Downhill 2%	1.5	108	192	268	342	414	760	1053	1324	1585	1836	2086
	2.0	132	229	316	397	475	842	1155	1444	1720	1992	2254
	2.5	149	257	352	439	523	908	1239	1544	1835	2118	2387
	3.0	163	280	381	474	563	966	1311	1628	1935	2226	2506
	3.5	175	300	407	506	598	1016	1377	1708	2020	2322	2618
	4.0	186	317	430	533	629	1062	1434	1776	2100	2412	2709

Minimum considered pressure 1.0 bar

Due to lateral filling time and flushing effectiveness it is not recommended to exceed 800 meters lateral length

Max. lateral length (meters) at different inlet pressure and different slopes

PCJ™ LCNL drippers • On PE pipe 20/4 • ID 17.0 mm • Kd 0.13 • Flow rate 3.0 l/h

	Distance between drippers (meter)											
	Inlet pressure (bar)	0.2	0.4	0.6	0.8	1.0	2.0	3.0	4.0	5.0	6.0	7.0
Uphill 2%	1.5	66	100	125	143	158	200	219	232	235	240	245
	2.0	87	138	175	206	231	318	369	400	425	438	455
	2.5	102	163	210	249	282	400	477	532	570	600	630
	3.0	114	184	238	283	322	466	564	636	695	738	777
	3.5	124	201	261	311	356	522	639	728	800	858	903
	4.0	133	216	281	337	385	570	702	804	890	960	1015
Flat terrain	1.5	73	120	160	194	225	356	462	556	645	726	798
	2.0	93	154	205	249	289	456	594	716	825	930	1022
	2.5	108	178	236	287	334	528	687	828	955	1074	1183
	3.0	119	198	262	318	370	584	762	916	1060	1194	1316
	3.5	129	214	284	345	401	634	825	992	1150	1290	1428
	4.0	137	228	303	369	428	676	882	1060	1225	1380	1519
Downhill 2%	1.5	81	142	196	248	298	536	765	964	1150	1332	1505
	2.0	99	172	235	294	349	606	846	1060	1260	1452	1638
	2.5	113	194	263	327	388	662	915	1140	1350	1548	1743
	3.0	124	212	287	355	420	710	972	1208	1425	1638	1841
	3.5	133	227	307	379	448	750	1023	1268	1495	1710	1925
	4.0	142	241	325	401	472	788	1068	1320	1555	1782	2002

Minimum considered pressure 1.0 bar

Due to lateral filling time and flushing effectiveness it is not recommended to exceed 800 meters lateral length

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

PCJ™ LCNL drippers • On PE pipe 20/4 • ID 17.0 mm • Kd 0.13 • Flow rate 4.0 l/h

	Distance between drippers (meter)											
	Inlet pressure (bar)	0.2	0.4	0.6	0.8	1.0	2.0	3.0	4.0	5.0	6.0	7.0
Uphill 2%	1.5	56	86	109	126	140	184	207	220	230	234	238
	2.0	73	117	150	177	200	282	333	368	395	414	427
	2.5	86	138	178	212	242	350	423	480	520	552	581
	3.0	95	155	201	240	275	404	495	568	625	672	707
	3.5	104	169	220	264	302	450	555	640	710	768	812
	4.0	111	181	237	284	326	490	609	704	785	852	910
Flat terrain	1.5	61	100	133	162	187	296	384	464	535	606	665
	2.0	77	128	170	207	240	380	495	596	690	774	854
	2.5	89	148	197	239	278	440	573	688	795	894	987
	3.0	99	164	218	265	308	486	633	764	880	990	1099
	3.5	107	178	236	287	334	528	687	828	955	1074	1190
	4.0	114	190	252	306	356	564	735	884	1020	1146	1267
Downhill 2%	1.5	66	115	158	199	238	422	597	768	920	1062	1197
	2.0	82	140	191	238	282	484	672	852	1015	1164	1309
	2.5	93	159	215	266	315	532	729	920	1090	1248	1400
	3.0	102	174	235	290	342	572	780	976	1155	1320	1484
	3.5	110	187	252	311	366	608	825	1028	1210	1386	1554
	4.0	117	198	267	329	387	640	864	1072	1265	1446	1617

Minimum considered pressure 1.0 bar

Due to lateral filling time and flushing effectiveness it is not recommended to exceed 800 meters lateral length

Max. lateral length (meters) at different inlet pressure and different slopes

PCJ™ LCNL drippers • On PE pipe 20/4 • ID 17.0 mm • Kd 0.13 • Flow rate 8.0 l/h

	Distance between drippers (meter)											
	Inlet pressure (bar)	0.2	0.4	0.6	0.8	1.0	2.0	3.0	4.0	5.0	6.0	7.0
Uphill 2%	1.5	37	58	75	89	101	142	168	188	200	210	217
	2.0	48	78	101	121	138	204	249	284	315	336	357
	2.5	56	91	119	142	164	246	306	352	395	426	455
	3.0	62	101	133	160	184	278	351	408	460	498	539
	3.5	67	110	145	175	201	308	387	456	510	558	602
	4.0	72	118	155	188	217	332	420	492	555	612	665

Flat terrain	1.5	39	64	85	104	121	190	249	300	345	390	434
	2.0	50	82	109	133	155	244	318	384	445	498	553
	2.5	57	95	126	154	179	282	369	444	515	576	637
	3.0	63	105	140	170	198	314	408	492	570	642	707
	3.5	68	114	151	185	214	340	441	532	615	696	763
	4.0	73	122	161	197	229	362	471	568	660	738	819

Downhill 2%	1.5	41	70	96	119	142	244	336	428	515	606	693
	2.0	51	87	118	146	172	288	393	492	585	678	770
	2.5	59	99	134	165	194	322	435	540	640	738	833
	3.0	65	109	147	181	212	348	468	580	685	786	889
	3.5	70	118	158	194	228	372	498	616	725	834	938
	4.0	74	125	168	206	242	394	525	648	760	870	980

Minimum considered pressure 1.0 bar

Due to lateral filling time and flushing effectiveness it is not recommended to exceed 800 meters lateral length

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

PCJ™ LCNL drippers • On PE pipe 20/4 • ID 17.0 mm • Kd 0.13 • Flow rate 12.0 l/h

	Distance between drippers (meter)											
	Inlet pressure (bar)	0.2	0.4	0.6	0.8	1.0	2.0	3.0	4.0	5.0	6.0	7.0
Uphill 2%	1.5	29	46	60	71	81	118	144	160	175	186	196
	2.0	37	61	79	95	109	164	204	236	265	288	308
	2.5	43	71	93	112	129	196	246	288	325	354	385
	3.0	48	79	104	126	145	222	282	332	375	408	448
	3.5	52	86	113	137	158	244	309	364	415	456	497
	4.0	55	92	121	146	169	262	333	396	450	498	539

Flat terrain	1.5	30	50	66	80	93	148	192	232	270	300	336
	2.0	38	64	85	102	119	190	246	296	345	384	427
	2.5	44	73	97	118	138	218	285	344	395	450	497
	3.0	49	81	108	131	153	242	315	380	440	498	546
	3.5	53	88	117	142	166	262	342	412	475	534	595
	4.0	56	94	125	152	177	280	366	440	510	570	630

Downhill 2%	1.5	31	53	72	90	106	178	246	308	370	432	490
	2.0	39	66	89	110	130	214	291	360	430	492	560
	2.5	45	76	102	126	147	242	324	400	475	540	609
	3.0	49	84	112	138	161	264	351	432	510	582	658
	3.5	53	90	121	148	174	282	375	460	540	618	693
	4.0	57	96	128	158	184	300	396	488	570	654	728

Minimum considered pressure 1.0 bar

Max. lateral length (meters) at different inlet pressure and different slopes

PCJ™ LCNL drippers • On PE pipe 25/4 • ID 21.2 mm • Kd 0.10 • Flow rate 0.5 l/h

	Distance between drippers (meter)											
	Inlet pressure (bar)	0.2	0.4	0.6	0.8	1.0	2.0	3.0	4.0	5.0	6.0	7.0
Uphill 2%	1.5	197	229	239	243	246	250	252	252	250	252	252
	2.0	309	400	440	461	472	492	498	500	500	504	504
	2.5	387	531	605	647	674	724	738	744	745	750	749
	3.0	449	636	742	809	853	946	972	984	990	996	994
	3.5	501	726	861	950	1013	1154	1200	1220	1230	1236	1239
	4.0	545	803	965	1077	1157	1352	1419	1448	1465	1476	1484
Flat terrain	1.5	339	556	734	890	1033	1626	2112	2544	2935	3300	3640
	2.0	434	713	942	1142	1325	2088	2715	3268	3770	4242	4683
	2.5	501	824	1089	1322	1534	2416	3141	3784	4365	4908	5418
	3.0	554	914	1208	1466	1701	2680	3486	4196	4845	5448	6013
	3.5	600	989	1309	1589	1844	2906	3780	4548	5250	5904	6517
	4.0	640	1056	1397	1696	1969	3104	4038	4860	5610	6306	6965
Downhill 2%	1.5	501	958	1351	1724	2085	3790	5409	6984	8535	10062	11578
	2.0	567	1053	1472	1869	2250	4034	5718	7344	8940	10512	12061
	2.5	620	1130	1573	1988	2386	4238	5973	7644	9280	10884	12467
	3.0	664	1197	1659	2092	2505	4416	6195	7908	9575	11208	12824
	3.5	702	1256	1736	2184	2610	4574	6393	8140	9840	11502	13139
	4.0	737	1310	1806	2267	2706	4718	6576	8352	10080	11766	13433

Minimum considered pressure 1.0 bar

Due to lateral filling time and flushing effectiveness it is not recommended to exceed 800 meters lateral length

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

PCJ™ LCNL drippers • On PE pipe 25/4 • ID 21.2 mm • Kd 0.10 • Flow rate 1.2 l/h

	Distance between drippers (meter)											
	Inlet pressure (bar)	0.2	0.4	0.6	0.8	1.0	2.0	3.0	4.0	5.0	6.0	7.0
Uphill 2%	1.5	143	190	212	225	232	244	249	252	250	252	252
	2.0	205	296	350	386	410	464	483	488	495	498	497
	2.5	247	369	449	506	548	656	696	716	730	732	742
	3.0	280	427	527	602	660	822	894	928	950	966	973
	3.5	308	475	593	683	755	970	1071	1128	1165	1182	1197
	4.0	333	517	650	754	838	1102	1236	1312	1365	1398	1421
Flat terrain	1.5	193	317	419	509	590	930	1209	1456	1680	1890	2086
	2.0	246	406	538	653	758	1194	1554	1872	2160	2430	2681
	2.5	284	470	622	755	877	1382	1797	2164	2500	2808	3101
	3.0	315	520	689	838	972	1534	1995	2404	2775	3120	3444
	3.5	341	564	746	907	1053	1662	2163	2604	3005	3378	3731
	4.0	363	602	797	969	1125	1774	2310	2780	3210	3612	3983
Downhill 2%	1.5	246	461	668	864	1035	1828	2565	3276	3970	4650	5320
	2.0	290	525	746	952	1136	1978	2757	3500	4220	4926	5621
	2.5	323	576	808	1024	1218	2104	2913	3684	4430	5160	5873
	3.0	350	618	861	1086	1290	2212	3051	3848	4615	5364	6097
	3.5	374	655	908	1142	1353	2308	3174	3992	4780	5544	6293
	4.0	394	688	950	1191	1411	2396	3285	4120	4925	5706	6475

Minimum considered pressure 1.0 bar

Due to lateral filling time and flushing effectiveness it is not recommended to exceed 800 meters lateral length

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

PCJ™ LCNL drippers • On PE pipe 25/4 • ID 21.2 mm • Kd 0.10 • Flow rate 2.0 l/h

	Distance between drippers (meter)											
	Inlet pressure (bar)	0.2	0.4	0.6	0.8	1.0	2.0	3.0	4.0	5.0	6.0	7.0
Uphill 2%	1.5	112	159	186	202	214	238	243	248	250	252	252
	2.0	155	234	286	324	353	430	459	476	485	486	490
	2.5	185	285	356	410	453	582	645	680	700	714	721
	3.0	208	326	411	478	533	710	804	860	895	918	938
	3.5	228	360	457	535	601	818	942	1020	1075	1110	1141
	4.0	245	389	497	585	659	914	1068	1168	1240	1290	1330
Flat terrain	1.5	139	229	302	367	426	672	873	1052	1215	1368	1512
	2.0	177	293	388	471	547	862	1122	1352	1560	1752	1939
	2.5	204	338	448	545	632	998	1299	1564	1805	2028	2240
	3.0	226	375	497	604	701	1108	1440	1736	2005	2250	2485
	3.5	245	406	538	654	760	1200	1560	1880	2170	2442	2695
	4.0	261	433	574	698	811	1282	1668	2008	2320	2610	2877
Downhill 2%	1.5	166	304	433	560	684	1214	1689	2140	2580	3006	3430
	2.0	200	354	496	631	763	1328	1833	2308	2770	3222	3661
	2.5	224	393	545	688	826	1422	1950	2448	2930	3396	3850
	3.0	244	426	586	736	880	1502	2052	2572	3065	3546	4018
	3.5	262	453	622	778	928	1574	2145	2676	3190	3684	4165
	4.0	277	478	654	817	971	1638	2226	2776	3300	3810	4305

Minimum considered pressure 1.0 bar

Due to lateral filling time and flushing effectiveness it is not recommended to exceed 800 meters lateral length

Max. lateral length (meters) at different inlet pressure and different slopes

PCJ™ LCNL drippers • On PE pipe 25/4 • ID 21.2 mm • Kd 0.10 • Flow rate 3.0 l/h

	Distance between drippers (meter)											
	Inlet pressure (bar)	0.2	0.4	0.6	0.8	1.0	2.0	3.0	4.0	5.0	6.0	7.0
Uphill 2%	1.5	91	134	161	180	194	226	237	244	245	246	252
	2.0	123	190	238	274	303	388	429	452	465	474	483
	2.5	146	229	290	339	379	512	585	628	660	678	693
	3.0	164	260	332	390	440	610	711	780	825	864	889
	3.5	178	285	367	434	490	692	822	912	975	1026	1064
	4.0	191	308	397	471	535	766	918	1024	1105	1170	1218
Flat terrain	1.5	107	176	233	283	329	518	675	812	940	1056	1169
	2.0	136	226	299	363	422	666	867	1044	1205	1356	1498
	2.5	157	261	346	420	488	770	1002	1208	1395	1572	1736
	3.0	174	289	383	466	541	854	1113	1340	1550	1740	1925
	3.5	188	313	415	505	586	926	1206	1452	1680	1884	2086
	4.0	201	334	443	539	626	990	1287	1552	1790	2016	2226
Downhill 2%	1.5	123	221	311	399	484	886	1221	1540	1850	2148	2443
	2.0	150	262	364	459	551	976	1335	1676	2000	2316	2625
	2.5	169	293	403	506	603	1050	1431	1788	2130	2460	2779
	3.0	185	319	436	545	648	1114	1512	1884	2235	2580	2912
	3.5	198	341	465	578	686	1170	1584	1968	2335	2688	3031
	4.0	210	360	490	609	721	1222	1650	2044	2425	2784	3136

Minimum considered pressure 1.0 bar

Due to lateral filling time and flushing effectiveness it is not recommended to exceed 800 meters lateral length

Max. lateral length (meters) at different inlet pressure and different slopes

PCJ™ LCNL drippers • On PE pipe 25/4 • ID 21.2 mm • Kd 0.10 • Flow rate 4.0 l/h

	Distance between drippers (meter)											
	Inlet pressure (bar)	0.2	0.4	0.6	0.8	1.0	2.0	3.0	4.0	5.0	6.0	7.0
Uphill 2%	1.5	78	117	143	162	177	216	231	240	245	246	245
	2.0	104	163	206	239	267	356	402	432	450	462	469
	2.5	123	195	249	293	330	458	534	584	620	648	665
	3.0	137	220	283	335	380	538	642	712	765	804	840
	3.5	150	241	311	370	421	608	732	824	890	948	987
	4.0	160	260	337	401	457	666	810	920	1005	1074	1127
Flat terrain	1.5	89	147	194	236	274	432	561	676	785	882	973
	2.0	113	188	249	302	351	554	723	868	1005	1128	1246
	2.5	131	217	287	350	406	642	834	1008	1160	1308	1442
	3.0	145	240	319	388	450	712	927	1116	1290	1452	1603
	3.5	156	260	345	420	488	772	1005	1208	1395	1572	1736
	4.0	167	278	368	448	521	824	1071	1292	1490	1680	1855
Downhill 2%	1.5	100	178	248	316	382	698	975	1228	1465	1698	1932
	2.0	122	213	293	369	441	776	1074	1340	1595	1848	2086
	2.5	139	239	327	409	486	842	1152	1436	1705	1962	2219
	3.0	152	261	355	442	524	896	1221	1516	1795	2064	2331
	3.5	163	280	380	471	557	944	1281	1588	1880	2160	2429
	4.0	173	296	401	497	587	988	1338	1656	1955	2244	2520

Minimum considered pressure 1.0 bar

Due to lateral filling time and flushing effectiveness it is not recommended to exceed 800 meters lateral length

Max. lateral length (meters) at different inlet pressure and different slopes

PCJ™ LCNL drippers • On PE pipe 25/4 • ID 21.2 mm • Kd 0.10 • Flow rate 8.0 l/h

	Distance between drippers (meter)											
	Inlet pressure (bar)	0.2	0.4	0.6	0.8	1.0	2.0	3.0	4.0	5.0	6.0	7.0
Uphill 2%	1.5	52	82	103	120	134	178	201	216	225	234	238
	2.0	69	110	142	168	190	270	321	360	385	408	420
	2.5	80	130	169	201	229	334	408	460	505	540	567
	3.0	89	146	190	227	260	384	474	544	600	648	686
	3.5	97	159	208	249	286	426	531	612	680	738	784
	4.0	104	170	223	268	308	464	579	672	750	816	875
Flat terrain	1.5	57	94	125	151	176	278	363	436	505	570	630
	2.0	72	120	160	194	226	356	465	560	645	726	805
	2.5	83	139	185	225	261	412	537	648	750	840	931
	3.0	92	154	205	249	289	458	597	720	830	936	1029
	3.5	100	167	221	270	313	496	645	780	900	1014	1120
	4.0	107	178	236	288	335	530	690	832	960	1080	1190
Downhill 2%	1.5	61	107	147	185	221	390	549	708	855	984	1113
	2.0	76	131	178	222	262	450	621	788	940	1080	1218
	2.5	87	148	201	249	294	496	678	852	1015	1164	1309
	3.0	95	162	220	271	320	534	726	908	1075	1230	1379
	3.5	103	174	236	290	342	568	768	956	1130	1290	1449
	4.0	109	185	250	308	362	598	804	1000	1180	1350	1512

Minimum considered pressure 1.0 bar

Due to lateral filling time and flushing effectiveness it is not recommended to exceed 800 meters lateral length

Max. lateral length (meters) at different inlet pressure and different slopes

PCJ™ LCNL drippers • On PE pipe 25/4 • ID 21.2 mm • Kd 0.10 • Flow rate 12.0 l/h

	Distance between drippers (meter)											
	Inlet pressure (bar)	0.2	0.4	0.6	0.8	1.0	2.0	3.0	4.0	5.0	6.0	7.0
Uphill 2%	1.5	41	65	83	98	111	154	180	196	210	216	224
	2.0	54	87	113	134	153	224	273	308	335	360	378
	2.5	62	102	133	159	182	272	336	388	430	462	490
	3.0	69	114	149	179	206	310	387	448	500	546	581
	3.5	75	124	163	196	225	342	429	500	560	612	658
	4.0	80	133	175	210	243	370	468	548	615	672	728
Flat terrain	1.5	44	72	96	117	136	216	279	340	390	438	483
	2.0	56	93	123	150	174	276	360	432	500	564	623
	2.5	64	107	142	174	202	320	417	500	580	654	721
	3.0	71	119	158	192	223	354	462	556	640	720	798
	3.5	77	128	171	208	242	384	498	604	695	780	861
	4.0	82	137	182	222	258	410	534	644	745	834	924
Downhill 2%	1.5	46	80	110	137	163	282	393	500	605	714	812
	2.0	58	99	134	166	196	330	453	568	680	792	896
	2.5	66	112	152	188	221	368	498	624	740	858	966
	3.0	73	124	167	206	241	398	537	668	790	912	1029
	3.5	79	133	179	221	259	426	573	708	835	960	1078
	4.0	84	142	190	234	274	450	603	744	875	1002	1127

Minimum considered pressure 1.0 bar

Due to lateral filling time and flushing effectiveness it is not recommended to exceed 800 meters lateral length

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

PCJ™ HCNL drippers • On PE pipe 12/4 • ID 9.8 mm • Kd 1.65 • Flow rate 0.5 l/h

	Distance between drippers (meter)											
	Inlet pressure (bar)	0.2	0.4	0.6	0.8	1.0	2.0	3.0	4.0	5.0	6.0	7.0
Uphill 2%	2.0	60	101	130	151	168	212	228	236	245	246	245
	2.5	79	137	182	218	248	346	396	428	445	462	469
	3.0	92	162	218	264	304	442	525	576	615	642	665
	3.5	102	181	245	300	347	518	627	700	760	798	833
	4.0	111	198	269	330	384	580	711	808	880	936	980
	4.0	111	198	269	330	384	580	711	808	880	936	980
Flat terrain	2.0	66	120	167	209	248	408	540	656	765	864	952
	2.5	84	153	213	266	316	524	693	844	980	1104	1225
	3.0	96	176	245	307	365	604	801	976	1130	1278	1414
	3.5	106	194	271	340	403	670	888	1080	1255	1416	1568
	4.0	114	210	293	368	436	724	963	1168	1360	1536	1701
	4.0	114	210	293	368	436	724	963	1168	1360	1536	1701
Downhill 2%	2.0	72	140	206	270	334	642	927	1176	1415	1650	1876
	2.5	89	169	244	317	387	718	1017	1284	1540	1788	2030
	3.0	100	190	273	352	427	778	1095	1376	1645	1902	2156
	3.5	110	207	296	381	461	830	1158	1456	1735	2004	2268
	4.0	118	222	317	406	490	876	1218	1524	1815	2094	2366
	4.0	118	222	317	406	490	876	1218	1524	1815	2094	2366

Minimum considered pressure 1.5 bar

Due to lateral filling time and flushing effectiveness it is not recommended to exceed 800 meters lateral length

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

PCJ™ HCNL drippers • On PE pipe 12/4 • ID 9.8 mm • Kd 1.65 • Flow rate 1.2 l/h

	Distance between drippers (meter)											
	Inlet pressure (bar)	0.2	0.4	0.6	0.8	1.0	2.0	3.0	4.0	5.0	6.0	7.0
Uphill 2%	2.0	35	62	83	100	114	162	189	208	220	228	231
	2.5	46	81	110	136	158	238	291	332	360	384	399
	3.0	53	95	130	161	187	290	363	420	460	498	525
	3.5	58	106	145	180	211	332	420	488	545	594	630
	4.0	63	114	158	197	231	366	465	544	615	672	721
Flat terrain	2.0	37	68	95	119	141	234	309	376	440	492	546
	2.5	47	86	121	151	180	298	396	484	560	636	700
	3.0	54	99	139	174	207	346	459	556	650	732	812
	3.5	60	110	154	193	229	382	507	616	720	810	896
	4.0	64	118	166	209	248	414	549	668	780	876	973
Downhill 2%	2.0	39	74	107	138	169	312	447	576	705	828	938
	2.5	49	92	131	167	203	362	510	648	785	918	1036
	3.0	55	104	148	189	227	402	558	708	850	984	1113
	3.5	61	114	161	206	248	434	600	756	905	1044	1176
	4.0	66	122	173	221	265	462	636	796	950	1098	1232

Minimum considered pressure 1.5 bar

Due to lateral filling time and flushing effectiveness it is not recommended to exceed 800 meters lateral length

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

PCJ™ HCNL drippers • On PE pipe 12/4 • ID 9.8 mm • Kd 1.65 • Flow rate 2.0 l/h

	Distance between drippers (meter)											
	Inlet pressure (bar)	0.2	0.4	0.6	0.8	1.0	2.0	3.0	4.0	5.0	6.0	7.0
Uphill 2%	2.0	26	46	62	75	88	130	159	176	190	204	210
	2.5	33	59	82	101	118	184	231	268	295	318	343
	3.0	38	69	95	118	139	220	282	328	370	402	434
	3.5	42	76	106	132	156	250	321	376	425	468	504
	4.0	45	83	115	144	170	274	354	420	475	522	567
Flat terrain	2.0	27	49	68	86	102	168	225	272	315	360	399
	2.5	34	62	86	109	129	216	288	348	405	456	511
	3.0	39	71	100	126	149	248	330	404	470	528	588
	3.5	43	79	110	138	165	276	366	448	520	588	651
	4.0	46	85	119	150	178	298	396	484	560	636	707
Downhill 2%	2.0	28	52	74	96	116	210	294	380	460	540	616
	2.5	35	64	92	118	141	248	345	436	525	606	693
	3.0	39	74	104	133	160	278	384	480	575	666	749
	3.5	43	81	115	146	175	302	414	516	615	708	805
	4.0	47	87	123	156	187	324	441	552	655	750	847

Minimum considered pressure 1.5 bar

Due to lateral filling time and flushing effectiveness it is not recommended to exceed 800 meters lateral length

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

PCJ™ HCNL drippers • On PE pipe 12/4 • ID 9.8 mm • Kd 1.65 • Flow rate 3.0 l/h

	Distance between drippers (meter)											
	Inlet pressure (bar)	0.2	0.4	0.6	0.8	1.0	2.0	3.0	4.0	5.0	6.0	7.0
Uphill 2%	2.0	20	36	49	60	70	108	132	152	170	180	189
	2.5	25	46	64	79	93	148	189	220	250	270	294
	3.0	29	53	74	92	109	176	225	268	305	336	364
	3.5	32	59	82	103	122	196	255	304	345	384	420
	4.0	35	64	89	112	132	216	279	336	380	426	462
Flat terrain	2.0	20	38	53	66	78	130	174	212	245	276	308
	2.5	26	48	67	84	100	166	222	272	315	354	392
	3.0	30	55	77	97	115	192	255	312	365	408	455
	3.5	33	60	85	106	127	212	282	344	400	456	504
	4.0	35	65	92	115	137	230	306	372	435	492	546
Downhill 2%	2.0	21	40	56	72	87	154	216	276	330	384	441
	2.5	26	49	70	89	107	186	255	320	385	444	504
	3.0	30	56	79	101	121	210	288	356	425	492	553
	3.5	33	62	87	110	133	228	312	388	460	528	595
	4.0	36	66	94	119	143	246	333	412	490	558	630

Minimum considered pressure 1.5 bar

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

PCJ™ HCNL drippers • On PE pipe 12/4 • ID 9.8 mm • Kd 1.65 • Flow rate 4.0 l/h

	Distance between drippers (meter)											
	Inlet pressure (bar)	0.2	0.4	0.6	0.8	1.0	2.0	3.0	4.0	5.0	6.0	7.0
Uphill 2%	2.0	17	30	41	50	59	92	117	136	150	162	175
	2.5	21	38	53	66	78	126	162	192	215	240	259
	3.0	24	44	62	78	91	148	192	228	260	288	315
	3.5	27	49	68	86	102	166	216	260	295	330	357
	4.0	29	53	74	94	111	182	237	284	325	366	399
Flat terrain	2.0	17	31	44	55	65	108	144	176	205	234	259
	2.5	21	40	55	70	83	138	186	224	260	294	329
	3.0	25	45	64	80	96	160	213	260	305	342	378
	3.5	27	50	70	89	106	178	237	288	335	378	420
	4.0	29	54	76	96	114	192	255	312	365	408	455
Downhill 2%	2.0	17	32	46	59	71	126	174	220	265	306	350
	2.5	22	40	58	73	88	152	210	260	310	360	406
	3.0	25	46	65	83	100	172	234	292	345	396	448
	3.5	27	51	72	91	110	188	255	316	375	432	483
	4.0	29	55	77	98	118	202	273	340	400	456	511

Minimum considered pressure 1.5 bar

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

PCJ™ HCNL drippers • On PE pipe 16/4 • ID 13.2 mm • Kd 0.39 • Flow rate 0.5 l/h

	Distance between drippers (meter)											
	Inlet pressure (bar)	0.2	0.4	0.6	0.8	1.0	2.0	3.0	4.0	5.0	6.0	7.0
Uphill 2%	2.0	111	161	189	206	217	238	246	248	250	252	252
	2.5	153	237	292	332	361	436	465	480	485	492	497
	3.0	181	289	364	422	466	596	657	688	705	720	728
	3.5	204	330	421	492	550	730	822	876	910	930	945
	4.0	223	364	468	551	620	846	969	1044	1095	1128	1155
Flat terrain	2.0	136	232	312	382	446	710	927	1120	1295	1458	1610
	2.5	174	297	399	489	571	912	1191	1436	1660	1866	2065
	3.0	200	343	461	566	660	1054	1377	1664	1920	2160	2387
	3.5	221	379	511	626	732	1170	1527	1844	2130	2400	2653
	4.0	239	410	553	678	792	1266	1656	2000	2310	2598	2870
Downhill 2%	2.0	162	309	450	588	725	1298	1818	2312	2795	3270	3731
	2.5	195	360	513	661	804	1416	1968	2492	2995	3492	3976
	3.0	218	398	562	718	869	1514	2091	2640	3165	3678	4179
	3.5	238	430	604	767	925	1598	2199	2764	3310	3834	4354
	4.0	255	458	640	810	974	1674	2295	2880	3440	3978	4508

Minimum considered pressure 1.5 bar

Due to lateral filling time and flushing effectiveness it is not recommended to exceed 800 meters lateral length

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

PCJ™ HCNL drippers • On PE pipe 16/4 • ID 13.2 mm • Kd 0.39 • Flow rate 1.2 l/h

	Distance between drippers (meter)											
	Inlet pressure (bar)	0.2	0.4	0.6	0.8	1.0	2.0	3.0	4.0	5.0	6.0	7.0
Uphill 2%	2.0	69	108	135	155	170	210	228	236	240	246	245
	2.5	92	149	191	226	253	344	393	424	445	456	469
	3.0	107	177	230	274	311	440	519	572	610	636	658
	3.5	120	199	261	313	357	516	618	692	745	792	819
	4.0	130	218	287	345	395	580	705	796	865	924	966
Flat terrain	2.0	77	132	178	218	255	406	531	640	740	834	924
	2.5	98	169	227	279	326	522	681	824	950	1074	1183
	3.0	113	195	263	322	377	602	789	952	1100	1242	1372
	3.5	125	216	291	357	417	668	873	1056	1220	1374	1519
	4.0	135	233	315	386	452	724	948	1144	1325	1488	1645
Downhill 2%	2.0	85	157	223	286	347	642	909	1144	1370	1590	1806
	2.5	105	189	264	335	402	718	1002	1252	1495	1728	1953
	3.0	119	212	295	372	445	778	1077	1344	1595	1842	2079
	3.5	130	232	321	403	480	830	1143	1420	1685	1938	2184
	4.0	140	248	343	430	511	876	1200	1488	1760	2028	2282

Minimum considered pressure 1.5 bar

Due to lateral filling time and flushing effectiveness it is not recommended to exceed 800 meters lateral length

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

PCJ™ HCNL drippers • On PE pipe 16/4 • ID 13.2 mm • Kd 0.39 • Flow rate 2.0 l/h

	Distance between drippers (meter)											
	Inlet pressure (bar)	0.2	0.4	0.6	0.8	1.0	2.0	3.0	4.0	5.0	6.0	7.0
Uphill 2%	2.0	51	83	106	123	138	184	207	220	230	234	238
	2.5	67	111	145	173	197	280	333	368	395	414	427
	3.0	78	131	172	207	237	348	423	480	520	558	581
	3.5	87	146	194	234	269	402	495	568	625	672	707
	4.0	94	160	212	257	296	446	555	640	710	768	819
Flat terrain	2.0	55	95	128	158	184	294	384	464	535	606	665
	2.5	70	121	164	201	235	376	492	596	690	774	854
	3.0	81	140	189	232	272	436	570	688	795	894	987
	3.5	90	155	209	258	301	482	633	764	880	996	1099
	4.0	97	168	227	278	326	522	684	828	955	1074	1190
Downhill 2%	2.0	60	108	151	193	232	418	594	768	920	1062	1204
	2.5	74	132	183	230	275	478	666	848	1010	1164	1316
	3.0	84	149	206	258	307	526	726	916	1090	1248	1407
	3.5	92	163	225	281	333	566	777	972	1155	1320	1484
	4.0	99	176	241	301	356	602	819	1024	1210	1386	1554

Minimum considered pressure 1.5 bar

Due to lateral filling time and flushing effectiveness it is not recommended to exceed 800 meters lateral length

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

PCJ™ HCNL drippers • On PE pipe 16/4 • ID 13.2 mm • Kd 0.39 • Flow rate 3.0 l/h

	Distance between drippers (meter)											
	Inlet pressure (bar)	0.2	0.4	0.6	0.8	1.0	2.0	3.0	4.0	5.0	6.0	7.0
Uphill 2%	2.0	40	66	85	101	114	160	186	204	215	222	231
	2.5	52	87	115	138	159	232	282	320	350	372	392
	3.0	61	102	136	164	189	284	351	404	445	480	511
	3.5	67	114	152	185	213	324	405	472	525	570	609
	4.0	73	124	166	202	234	358	450	524	590	642	693
Flat terrain	2.0	43	73	99	122	142	228	297	360	415	468	518
	2.5	54	94	126	155	181	290	381	460	530	600	665
	3.0	62	108	146	179	210	336	441	532	615	696	763
	3.5	69	119	161	198	232	372	489	588	680	768	847
	4.0	74	129	175	215	251	404	528	640	740	834	917
Downhill 2%	2.0	45	81	113	142	171	300	423	540	660	774	875
	2.5	56	100	137	172	205	352	486	612	735	858	966
	3.0	64	113	156	194	231	390	534	668	800	924	1043
	3.5	70	124	170	213	251	422	573	716	850	984	1106
	4.0	76	134	183	228	269	450	609	756	895	1032	1162

Minimum considered pressure 1.5 bar

Due to lateral filling time and flushing effectiveness it is not recommended to exceed 800 meters lateral length

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

PCJ™ HCNL drippers • On PE pipe 16/4 • ID 13.2 mm • Kd 0.39 • Flow rate 4.0 l/h

	Distance between drippers (meter)											
	Inlet pressure (bar)	0.2	0.4	0.6	0.8	1.0	2.0	3.0	4.0	5.0	6.0	7.0
Uphill 2%	2.0	34	56	73	87	99	142	168	188	200	210	217
	2.5	44	74	97	118	135	202	249	284	315	336	357
	3.0	50	86	114	138	160	244	306	352	395	426	455
	3.5	56	96	128	155	180	276	348	408	460	498	539
	4.0	61	104	139	170	197	304	387	452	510	564	609
Flat terrain	2.0	35	61	82	101	118	190	249	300	345	390	434
	2.5	45	78	105	129	151	242	318	384	445	498	553
	3.0	52	90	121	149	174	280	366	444	515	576	637
	3.5	57	99	134	165	193	310	408	492	570	642	707
	4.0	62	107	145	178	209	336	441	532	615	696	770
Downhill 2%	2.0	37	66	92	115	138	240	336	428	515	606	693
	2.5	46	82	113	141	167	284	390	488	585	678	770
	3.0	53	93	128	159	189	318	432	536	640	738	833
	3.5	58	102	140	174	207	346	465	580	685	786	889
	4.0	63	110	151	188	222	368	495	616	725	834	938

Minimum considered pressure 1.5 bar

Due to lateral filling time and flushing effectiveness it is not recommended to exceed 800 meters lateral length

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

PCJ™ HCNL drippers • On PE pipe 20/4 • ID 17.0 mm • Kd 0.13 • Flow rate 0.5 l/h

	Distance between drippers (meter)											
	Inlet pressure (bar)	0.2	0.4	0.6	0.8	1.0	2.0	3.0	4.0	5.0	6.0	7.0
Uphill 2%	2.0	161	206	224	233	238	248	249	252	250	252	252
	2.5	236	331	383	414	435	478	489	496	495	498	504
	3.0	288	420	501	556	595	686	717	728	735	744	742
	3.5	329	490	596	672	728	872	927	956	970	978	987
	4.0	363	550	676	770	842	1042	1125	1168	1195	1206	1218
Flat terrain	2.0	232	380	502	609	706	1112	1446	1740	2005	2256	2492
	2.5	296	487	644	781	906	1426	1854	2232	2580	2898	3199
	3.0	342	563	745	904	1048	1652	2148	2588	2985	3354	3703
	3.5	379	624	826	1002	1163	1832	2382	2868	3310	3726	4109
	4.0	410	676	894	1086	1260	1986	2583	3112	3590	4038	4459
Downhill 2%	2.0	308	585	848	1074	1290	2296	3240	4152	5045	5922	6790
	2.5	359	658	935	1178	1408	2474	3465	4416	5340	6246	7140
	3.0	398	716	1006	1262	1505	2620	3648	4632	5585	6522	7434
	3.5	430	764	1067	1335	1590	2746	3807	4820	5800	6756	7693
	4.0	458	808	1122	1401	1664	2860	3951	4988	5990	6966	7924

Minimum considered pressure 1.5 bar

Due to lateral filling time and flushing effectiveness it is not recommended to exceed 800 meters lateral length

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

PCJ™ HCNL drippers • On PE pipe 20/4 • ID 17.0 mm • Kd 0.13 • Flow rate 1.2 l/h

	Distance between drippers (meter)											
	Inlet pressure (bar)	0.2	0.4	0.6	0.8	1.0	2.0	3.0	4.0	5.0	6.0	7.0
Uphill 2%	2.0	108	154	181	198	210	236	243	248	250	252	252
	2.5	149	225	276	314	342	422	453	472	480	486	490
	3.0	177	273	342	395	438	568	633	668	690	708	714
	3.5	199	312	394	459	513	688	786	844	885	912	931
	4.0	218	344	437	513	577	792	918	1000	1055	1098	1127
Flat terrain	2.0	132	217	287	348	404	636	828	996	1150	1296	1428
	2.5	168	278	367	446	518	816	1062	1280	1475	1662	1834
	3.0	194	321	425	516	599	946	1230	1480	1710	1920	2121
	3.5	215	356	471	573	665	1048	1365	1644	1895	2130	2352
	4.0	233	385	510	620	720	1136	1479	1780	2055	2310	2555
Downhill 2%	2.0	157	284	404	522	636	1136	1575	1996	2400	2802	3192
	2.5	189	333	465	590	712	1244	1713	2156	2585	3000	3409
	3.0	212	370	512	645	773	1332	1824	2288	2735	3168	3591
	3.5	232	401	551	691	825	1410	1923	2404	2865	3312	3752
	4.0	248	428	586	732	871	1478	2010	2508	2985	3444	3892

Minimum considered pressure 1.5 bar

Due to lateral filling time and flushing effectiveness it is not recommended to exceed 800 meters lateral length

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

PCJ™ HCNL drippers • On PE pipe 20/4 • ID 17.0 mm • Kd 0.13 • Flow rate 2.0 l/h

	Distance between drippers (meter)											
	Inlet pressure (bar)	0.2	0.4	0.6	0.8	1.0	2.0	3.0	4.0	5.0	6.0	7.0
Uphill 2%	2.0	82	123	149	168	183	220	234	240	245	246	252
	2.5	111	172	217	251	279	368	414	440	455	468	476
	3.0	131	206	263	308	346	476	552	600	635	660	679
	3.5	146	233	299	354	399	562	666	736	790	828	854
	4.0	159	256	330	391	444	636	762	852	920	972	1015
Flat terrain	2.0	95	156	207	251	291	460	597	720	830	936	1036
	2.5	121	200	265	322	374	590	768	924	1070	1200	1323
	3.0	140	231	307	373	432	682	888	1068	1235	1392	1533
	3.5	155	256	340	413	480	758	984	1188	1370	1542	1701
	4.0	167	278	368	447	520	820	1068	1288	1485	1668	1848
Downhill 2%	2.0	108	192	268	342	414	760	1053	1324	1585	1836	2086
	2.5	132	229	316	397	475	842	1155	1444	1720	1992	2254
	3.0	149	257	352	439	523	908	1239	1544	1835	2118	2387
	3.5	163	280	381	474	563	966	1311	1628	1935	2226	2506
	4.0	175	300	407	506	598	1016	1377	1708	2020	2322	2618

Minimum considered pressure 1.5 bar

Due to lateral filling time and flushing effectiveness it is not recommended to exceed 800 meters lateral length

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

PCJ™ HCNL drippers • On PE pipe 20/4 • ID 17.0 mm • Kd 0.13 • Flow rate 3.0 l/h

	Distance between drippers (meter)											
	Inlet pressure (bar)	0.2	0.4	0.6	0.8	1.0	2.0	3.0	4.0	5.0	6.0	7.0
Uphill 2%	2.0	66	100	125	143	158	200	219	232	235	240	245
	2.5	87	138	175	206	231	318	369	400	425	438	455
	3.0	102	163	210	249	282	400	477	532	570	600	630
	3.5	114	184	238	283	322	466	564	636	695	738	777
	4.0	124	201	261	311	356	522	639	728	800	858	903
Flat terrain	2.0	73	120	160	194	225	356	462	556	645	726	798
	2.5	93	154	205	249	289	456	594	716	825	930	1022
	3.0	108	178	236	287	334	528	687	828	955	1074	1183
	3.5	119	198	262	318	370	584	762	916	1060	1194	1316
	4.0	129	214	284	345	401	634	825	992	1150	1290	1428
Downhill 2%	2.0	81	142	196	248	298	536	765	964	1150	1332	1505
	2.5	99	172	235	294	349	606	846	1060	1260	1452	1638
	3.0	113	194	263	327	388	662	915	1140	1350	1548	1743
	3.5	124	212	287	355	420	710	972	1208	1425	1638	1841
	4.0	133	227	307	379	448	750	1023	1268	1495	1710	1925

Minimum considered pressure 1.5 bar

Due to lateral filling time and flushing effectiveness it is not recommended to exceed 800 meters lateral length

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

PCJ™ HCNL drippers • On PE pipe 20/4 • ID 17.0 mm • Kd 0.13 • Flow rate 4.0 l/h

	Distance between drippers (meter)											
	Inlet pressure (bar)	0.2	0.4	0.6	0.8	1.0	2.0	3.0	4.0	5.0	6.0	7.0
Uphill 2%	2.0	56	86	109	126	140	184	207	220	230	234	238
	2.5	73	117	150	177	200	282	333	368	395	414	427
	3.0	86	138	178	212	242	350	423	480	520	552	581
	3.5	95	155	201	240	275	404	495	568	625	672	707
	4.0	104	169	220	264	302	450	555	640	710	768	812
Flat terrain	2.0	61	100	133	162	187	296	384	464	535	606	665
	2.5	77	128	170	207	240	380	495	596	690	774	854
	3.0	89	148	197	239	278	440	573	688	795	894	987
	3.5	99	164	218	265	308	486	633	764	880	990	1099
	4.0	107	178	236	287	334	528	687	828	955	1074	1190
Downhill 2%	2.0	66	115	158	199	238	422	597	768	920	1062	1197
	2.5	82	140	191	238	282	484	672	852	1015	1164	1309
	3.0	93	159	215	266	315	532	729	920	1090	1248	1400
	3.5	102	174	235	290	342	572	780	976	1155	1320	1484
	4.0	110	187	252	311	366	608	825	1028	1210	1386	1554

Minimum considered pressure 1.5 bar

Due to lateral filling time and flushing effectiveness it is not recommended to exceed 800 meters lateral length

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

PCJ™ HCNL drippers • On PE pipe 25/4 • ID 21.2 mm • Kd 0.10 • Flow rate 0.5 l/h

	Distance between drippers (meter)											
	Inlet pressure (bar)	0.2	0.4	0.6	0.8	1.0	2.0	3.0	4.0	5.0	6.0	7.0
Uphill 2%	2.0	197	229	239	243	246	250	252	252	250	252	252
	2.5	309	400	440	461	472	492	498	500	500	504	504
	3.0	387	531	605	647	674	724	738	744	745	750	749
	3.5	449	636	742	809	853	946	972	984	990	996	994
	4.0	501	726	861	950	1013	1154	1200	1220	1230	1236	1239
Flat terrain	2.0	339	556	734	890	1033	1626	2112	2544	2935	3300	3640
	2.5	434	713	942	1142	1325	2088	2715	3268	3770	4242	4683
	3.0	501	824	1089	1322	1534	2416	3141	3784	4365	4908	5418
	3.5	554	914	1208	1466	1701	2680	3486	4196	4845	5448	6013
	4.0	600	989	1309	1589	1844	2906	3780	4548	5250	5904	6517
Downhill 2%	2.0	501	958	1351	1724	2085	3790	5409	6984	8535	10062	11578
	2.5	567	1053	1472	1869	2250	4034	5718	7344	8940	10512	12061
	3.0	620	1130	1573	1988	2386	4238	5973	7644	9280	10884	12467
	3.5	664	1197	1659	2092	2505	4416	6195	7908	9575	11208	12824
	4.0	702	1256	1736	2184	2610	4574	6393	8140	9840	11502	13139

Minimum considered pressure 1.5 bar

Due to lateral filling time and flushing effectiveness it is not recommended to exceed 800 meters lateral length

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

PCJ™ HCNL drippers • On PE pipe 25/4 • ID 21.2 mm • Kd 0.10 • Flow rate 1.2 l/h

	Distance between drippers (meter)											
	Inlet pressure (bar)	0.2	0.4	0.6	0.8	1.0	2.0	3.0	4.0	5.0	6.0	7.0
Uphill 2%	2.0	143	190	212	225	232	244	249	252	250	252	252
	2.5	205	296	350	386	410	464	483	488	495	498	497
	3.0	247	369	449	506	548	656	696	716	730	732	742
	3.5	280	427	527	602	660	822	894	928	950	966	973
	4.0	308	475	593	683	755	970	1071	1128	1165	1182	1197
Flat terrain	2.0	193	317	419	509	590	930	1209	1456	1680	1890	2086
	2.5	246	406	538	653	758	1194	1554	1872	2160	2430	2681
	3.0	284	470	622	755	877	1382	1797	2164	2500	2808	3101
	3.5	315	520	689	838	972	1534	1995	2404	2775	3120	3444
	4.0	341	564	746	907	1053	1662	2163	2604	3005	3378	3731
Downhill 2%	2.0	246	461	668	864	1035	1828	2565	3276	3970	4650	5320
	2.5	290	525	746	952	1136	1978	2757	3500	4220	4926	5621
	3.0	323	576	808	1024	1218	2104	2913	3684	4430	5160	5873
	3.5	350	618	861	1086	1290	2212	3051	3848	4615	5364	6097
	4.0	374	655	908	1142	1353	2308	3174	3992	4780	5544	6293

Minimum considered pressure 1.5 bar

Due to lateral filling time and flushing effectiveness it is not recommended to exceed 800 meters lateral length

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

PCJ™ HCNL drippers • On PE pipe 25/4 • ID 21.2 mm • Kd 0.10 • Flow rate 2.0 l/h

	Distance between drippers (meter)											
	Inlet pressure (bar)	0.2	0.4	0.6	0.8	1.0	2.0	3.0	4.0	5.0	6.0	7.0
Uphill 2%	2.0	112	159	186	202	214	238	243	248	250	252	252
	2.5	155	234	286	324	353	430	459	476	485	486	490
	3.0	185	285	356	410	453	582	645	680	700	714	721
	3.5	208	326	411	478	533	710	804	860	895	918	938
	4.0	228	360	457	535	601	818	942	1020	1075	1110	1141
Flat terrain	2.0	139	229	302	367	426	672	873	1052	1215	1368	1512
	2.5	177	293	388	471	547	862	1122	1352	1560	1752	1939
	3.0	204	338	448	545	632	998	1299	1564	1805	2028	2240
	3.5	226	375	497	604	701	1108	1440	1736	2005	2250	2485
	4.0	245	406	538	654	760	1200	1560	1880	2170	2442	2695
Downhill 2%	2.0	166	304	433	560	684	1214	1689	2140	2580	3006	3430
	2.5	200	354	496	631	763	1328	1833	2308	2770	3222	3661
	3.0	224	393	545	688	826	1422	1950	2448	2930	3396	3850
	3.5	244	426	586	736	880	1502	2052	2572	3065	3546	4018
	4.0	262	453	622	778	928	1574	2145	2676	3190	3684	4165

Minimum considered pressure 1.5 bar

Due to lateral filling time and flushing effectiveness it is not recommended to exceed 800 meters lateral length

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

PCJ™ HCNL drippers • On PE pipe 25/4 • ID 21.2 mm • Kd 0.10 • Flow rate 3.0 l/h

	Distance between drippers (meter)											
	Inlet pressure (bar)	0.2	0.4	0.6	0.8	1.0	2.0	3.0	4.0	5.0	6.0	7.0
Uphill 2%	2.0	91	134	161	180	194	226	237	244	245	246	252
	2.5	123	190	238	274	303	388	429	452	465	474	483
	3.0	146	229	290	339	379	512	585	628	660	678	693
	3.5	164	260	332	390	440	610	711	780	825	864	889
	4.0	178	285	367	434	490	692	822	912	975	1026	1064
Flat terrain	2.0	107	176	233	283	329	518	675	812	940	1056	1169
	2.5	136	226	299	363	422	666	867	1044	1205	1356	1498
	3.0	157	261	346	420	488	770	1002	1208	1395	1572	1736
	3.5	174	289	383	466	541	854	1113	1340	1550	1740	1925
	4.0	188	313	415	505	586	926	1206	1452	1680	1884	2086
Downhill 2%	2.0	123	221	311	399	484	886	1221	1540	1850	2148	2443
	2.5	150	262	364	459	551	976	1335	1676	2000	2316	2625
	3.0	169	293	403	506	603	1050	1431	1788	2130	2460	2779
	3.5	185	319	436	545	648	1114	1512	1884	2235	2580	2912
	4.0	198	341	465	578	686	1170	1584	1968	2335	2688	3031

Minimum considered pressure 1.5 bar

Due to lateral filling time and flushing effectiveness it is not recommended to exceed 800 meters lateral length

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

PCJ™ HCNL drippers • On PE pipe 25/4 • ID 21.2 mm • Kd 0.10 • Flow rate 4.0 l/h

	Distance between drippers (meter)											
	Inlet pressure (bar)	0.2	0.4	0.6	0.8	1.0	2.0	3.0	4.0	5.0	6.0	7.0
Uphill 2%	2.0	78	117	143	162	177	216	231	240	245	246	245
	2.5	104	163	206	239	267	356	402	432	450	462	469
	3.0	123	195	249	293	330	458	534	584	620	648	665
	3.5	137	220	283	335	380	538	642	712	765	804	840
	4.0	150	241	311	370	421	608	732	824	890	948	987
Flat terrain	2.0	89	147	194	236	274	432	561	676	785	882	973
	2.5	113	188	249	302	351	554	723	868	1005	1128	1246
	3.0	131	217	287	350	406	642	834	1008	1160	1308	1442
	3.5	145	240	319	388	450	712	927	1116	1290	1452	1603
	4.0	156	260	345	420	488	772	1005	1208	1395	1572	1736
Downhill 2%	2.0	100	178	248	316	382	698	975	1228	1465	1698	1932
	2.5	122	213	293	369	441	776	1074	1340	1595	1848	2086
	3.0	139	239	327	409	486	842	1152	1436	1705	1962	2219
	3.5	152	261	355	442	524	896	1221	1516	1795	2064	2331
	4.0	163	280	380	471	557	944	1281	1588	1880	2160	2429

Minimum considered pressure 1.5 bar

Due to lateral filling time and flushing effectiveness it is not recommended to exceed 800 meters lateral length