

State-of-the-art cylindrical PC (Pressure Compensating) dripper ensures highest durability and excellent performance

Applications

- Ideal solution for irrigation in topographically challenging terrain, where longer laterals are required
- Reliable performance with all water qualities

Structure and features

- Continuous 16 mm and 20 mm polyethylene dripline with integrated self-regulating drippers
- Double water inlets and outlets per dripper
- New formulated silicone diaphragm ensures reliable and accurate performance with diverse water qualities, chemicals and fertilizers
- Individual double filter and flushing mechanism for maximal clog resistance and self-cleaning
- Pressure regulating range: 0.5-4.0 bar (of the dripper)
- Recommended working pressure: 1.0-3.5 bar

Technical data

	Wall th. (mm)	OD (mm)	ID (mm)	Recommended working pressure (bar)	Dripper spacing* (cm)	Coil length (m)
NaanPC 16 Light	0.65	15.2	13.9	0.5 - 2.0	15 - 100	500
NaanPC 16	0.9	15.7	13.9	1.0 - 3.0	15 - 100	400
NaanPC 16	1.0	15.9	13.9	1.0 - 3.5	15 - 100	400
NaanPC 16	1.15	16.2	13.9	1.0 - 3.5	15 - 100	400
NaanPC 20	1.0	19.7	17.7	1.0 - 3.0	20 - 100	300
NaanPC 20	1.2	20.4	18.0	1.0 - 3.5	20 - 100	300

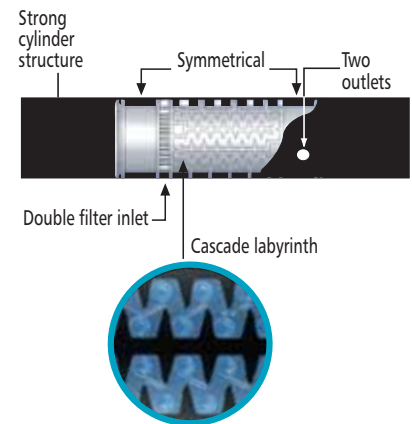
* Other spacing upon request

Dripper flow rate range

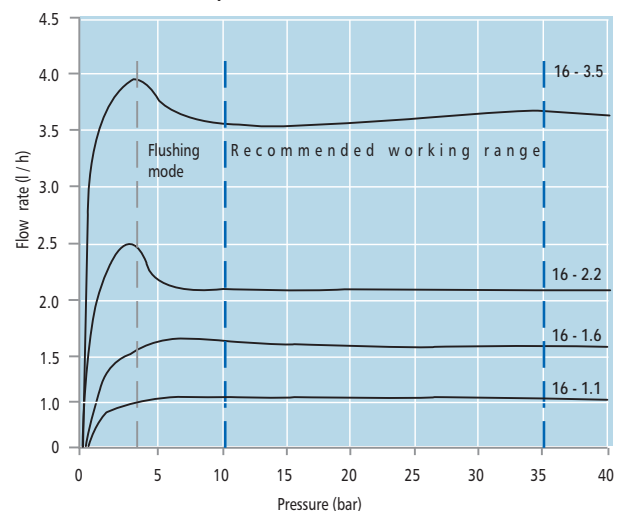
Dripline model	Wall th. (mm)	Dripper color - Flow rate (l/h)			
		Grey	Black	Blue	Orange
16 mm	0.65	1.25	1.6	2.5	3.5
	0.9	1.1	1.6	2.2	3.5
20 mm	1.0	0.95	1.6	2.3	4.0
	1.2	0.95	1.6	2.2	3.8



NaanPC dripper structure



Flow rate vs. pressure



NaanPC™ -16 mm

PC dripline

Lateral length design

NaanPC 16 dripline -1.1 (grey)

Lateral length (m)	Dripper spacing (cm)							
	15	20	30	40	50	60	75	100
20	0.1	0.1						
40	1.1	0.5	0.2	0.1	0.1			
60	3.7	1.8	0.7	0.4	0.2	0.1	0.1	0.1
80	8.8	4.2	1.6	0.8	0.5	0.3	0.2	0.1
100	17.1	8.2	3.1	1.6	1.0	0.6	0.4	0.2
120		14.1	5.2	2.7	1.6	1.1	0.7	0.4
140		22.2	8.2	4.2	2.5	1.7	1.1	0.6
160			12.2	6.2	3.8	2.5	1.6	0.9
180			17.2	8.8	5.3	3.6	2.2	1.2
200			23.5	11.9	7.2	4.9	3.0	1.7
220				15.8	9.5	6.4	4.0	2.2

NaanPC 16 dripline -1.6 (black)

Lateral length (m)	Dripper spacing (cm)							
	15	20	30	40	50	60	75	100
20	0.3	0.1	0.1					
40	2.3	1.1	0.4	0.2	0.1	0.1	0.1	0.1
60	7.9	3.8	1.4	0.7	0.4	0.3	0.2	0.2
80	18.6	8.8	3.3	1.7	1.0	0.7	0.4	
100		17.1	6.4	3.2	2.0	1.3	0.8	
120			10.9	5.5	3.3	2.3	1.4	
140			17.1	8.7	5.2	3.5	2.2	
160				12.8	7.7	5.2	3.2	
180				18.1	10.9	7.3	4.5	
200					14.8	9.9	6.1	
220					19.6	13.1	8.1	

NaanPC 16 dripline - 2.2 (blue)

Lateral length (m)	Dripper spacing (cm)							
	15	20	30	40	50	60	75	100
20	0.6	0.3	0.1	0.1				
40	4.4	2.1	0.8	0.4	0.3	0.2	0.1	0.1
60	14.9	7.0	2.7	1.4	0.8	0.6	0.3	0.2
80		16.6	6.1	3.1	1.9	1.3	0.8	0.5
100			11.8	6.0	3.6	2.4	1.5	0.9
120			20.3	10.2	6.2	4.2	2.5	1.4
140				16.1	9.6	6.5	4.0	2.2
160					14.2	9.5	5.9	3.3
180					20.1	13.5	8.2	4.6
200						18.3	11.2	6.2
220							14.9	8.2

Head loss (m) in relation to lateral length (m) dripper flow rate and spacing (cm)

NaanPC 16 dripline - 3.5 (orange)

Lateral length (m)	Dripper spacing (cm)					
	30	40	50	60	75	100
40	2.0	0.1	0.1	0.1	0.3	0.2
60	6.6	1.0	0.6	0.4	0.8	0.5
80	15.2	3.4	2.0	1.3	1.9	1.1
100		7.7	4.6	5.9	3.7	2.1
120		14.7	8.8	10.2	6.2	3.5
140			15.0	15.8	9.7	5.4
160					14.3	7.9
180					20.0	11.0
200						14.9
220						19.7

NaanPC light™ -16 mm New

Combines the advantages of a PC dripper with an attractive economical solution

Applications: orchards and plantations, greenhouse and open field vegetables, where longer laterals and highly effective accurate PC drippers are required

NaanPC 16 dripline -1.25

Lateral length (m)	Dripper spacing (cm)							
	15	20	30	40	50	60	75	100
20	0.2	0.1						
40	1.4	0.7	0.3	0.1	0.1	0.1		
60	4.8	2.3	0.9	0.5	0.3	0.2	0.1	0.1
80	11.4	5.4	2.0	1.0	0.6	0.4	0.3	0.2
100		10.5	3.9	2.0	1.2	0.8	0.5	0.3
120			6.7	3.4	2.1	1.4	0.9	0.5
140			10.6	5.4	3.3	2.2	1.4	0.8
160				7.9	4.8	3.2	2.0	1.1
180				11.2	6.8	4.6	2.8	1.6
200					9.2	6.2	3.8	2.1
220					12.2	8.1	5.1	2.8

NaanPC 16 dripline -1.6 (black)

Lateral length (m)	Dripper spacing (cm)							
	15	20	30	40	50	60	75	100
20	0.3	0.1	0.1					
40	2.3	1.1	0.4	0.2	0.1	0.1	0.1	0.1
60	7.9	3.8	1.4	0.7	0.4	0.3	0.2	0.2
80		8.8	3.3	1.7	1.0	0.7	0.4	
100			6.4	3.2	2.0	1.3	0.8	
120			10.9	5.5	3.3	2.3	1.4	
140				8.7	5.2	3.5	2.2	
160				12.8	7.7	5.2	3.2	
180					10.9	7.3	4.5	
200						9.9	6.1	
220							8.1	

NaanPC 16 dripline -2.5

Lateral length (m)	Dripper spacing (cm)							
	15	20	30	40	50	60	75	100
20	0.7	0.4	0.1	0.1				
40	5.7	2.7	1.0	0.5	0.3	0.2	0.1	0.1
60		9.1	3.4	1.8	1.0	0.7	0.4	0.3
80			7.9	4.0	2.4	1.6	1.0	0.6
100				7.7	4.6	3.1	1.9	1.1
120					7.9	5.3	3.3	1.8
140					12.3	8.3	5.1	2.8
160						12.2	7.5	4.2
180							10.5	5.8
200								7.9
220								10.4

Head loss (m) in relation to lateral length (m) dripper flow rate and spacing (cm)
Maximal operating pressure 2.0 bar

NaanPC 16 dripline - 3.5 (orange)

Lateral length (m)	Dripper spacing (cm)					
	30	40	50	60	75	100
40	2.0	0.1	0.1	0.1	0.3	0.2
60	6.6	1.0	0.6	0.4	0.8	0.5
80		3.4	2.0	1.3	1.9	1.1
100		7.7	4.6	5.9	3.7	2.1
120			8.8	10.2	6.2	3.5
140					9.7	5.4
160						7.9
180						11.0

NaanPC™ -20 mm

PC dripline

Lateral length design

Head loss (m) in relation to lateral length (m) dripper flow rate and spacing (cm)



NaanPC 20 dripline - 1.6 (black)

Lateral length (m)	Dripper spacing (cm)					
	30	40	50	60	75	100
20	0.0	0.0	0.0	0.0	0.0	0.0
40	0.2	0.1	0.1	0.0	0.0	0.0
60	0.6	0.3	0.2	0.1	0.1	0.0
80	1.4	0.7	0.4	0.3	0.2	0.1
100	2.7	1.3	0.8	0.5	0.3	0.2
120	4.7	2.3	1.3	0.9	0.5	0.3
140	7.3	3.5	2.1	1.4	0.8	0.4
160	10.7	5.2	3.0	2.0	1.2	0.6
180	15.0	7.3	4.3	2.8	1.7	0.9
200	20.3	9.9	5.8	3.8	2.2	1.2
220		13.0	7.6	4.9	3.0	1.6
240		16.8	9.8	6.4	3.8	2.0
260			12.3	8.0	4.8	2.5
280			15.2	9.9	5.9	3.1
300				12.1	7.2	3.8
320				14.6	8.7	4.6
340				17.3	10.3	5.4
360					12.1	6.4
380					14.2	7.5
400					16.5	8.7
420					18.9	9.9
440						11.4
460						12.9
480						14.6
500						16.4

NaanPC 20 dripline - 2.2 (blue)

Lateral length (m)	Dripper spacing (cm)					
	30	40	50	60	75	100
20	0.0	0.0	0.0	0.0	0.0	0.0
40	0.4	0.2	0.1	0.1	0.0	0.0
60	1.2	0.6	0.3	0.2	0.1	0.1
80	2.6	1.3	0.7	0.5	0.3	0.2
100	5.0	2.4	1.4	0.9	0.6	0.3
120	8.5	4.1	2.4	1.6	0.9	0.5
140	13.3	6.5	3.8	2.5	1.5	0.8
160	19.6	9.5	5.5	3.6	2.2	1.1
180		13.3	7.8	5.1	3.0	1.6
200		18.1	10.5	6.9	4.1	2.2
220			13.8	9.0	5.4	2.8
240			17.8	11.6	6.9	3.6
260				14.6	8.7	4.6
280				18.0	10.8	5.7
300				22.1	13.1	6.9
320					15.8	8.3
340					18.8	9.9
360						11.6
380						13.6
400						15.7
420						18.1

NaanPC 20 dripline - 3.8 (orange)

Lateral length (m)	Dripper spacing (cm)					
	30	40	50	60	75	100
20	0.1	0.1	0.0	0.0	0.0	0.0
40	1.0	0.5	0.3	0.2	0.1	0.1
60	3.3	1.6	0.9	0.6	0.4	0.2
80	7.4	3.6	2.1	1.4	0.8	0.4
100	14.2	6.9	4.0	2.6	1.6	0.8
120	24.1	11.6	6.8	4.5	2.6	1.4
140		18.2	10.6	6.9	4.1	2.2
160			15.5	10.1	6.0	3.2
180				14.2	8.4	4.5
200				19.2	11.4	6.0
220					15.1	7.9
240					19.2	10.2
260						12.8
280						15.8
300						19.2

Head loss tables

Head loss (m) in relation to lateral length (m), dripper flow rate and spacing (cm)

Example of pressure calculation:

Dripline:	16 mm
Dripper flow:	2.1
Dripper spacing:	50 cm
Length:	120 m
Topography:	5.0 m uphill
Required lateral pressure:	
Head-loss as shown in table:	8.3 m
Topography	5.0 m
Minimum required pressure	10.0 m
Total pressure	23.3 m

