

Drip line with pressure compensating dripper



Series :
4516 - 4520

- Made with 100% virgin raw materials
- Suitable for residential and gardening applications
- Resistant to UV, acid and common agricultural chemicals

Dripper available in the following styles:

- **pressure-compensating PC**
It keeps the same flow rate at different pressures in all the dripline emitters. Suitable for projects on slope.
- **anti-siphon AS**
It avoids the suction of debris during the dripline discharge. Suitable for sub-irrigation and soil laying projects. **Requires the installation of a double-acting vent valve on each sector.**
- **no-drain ND**
The emitter closes at 0.15 (bar) to avoid water emission at the end of the irrigation cycle and to reduce the dripline filling time to the next irrigation cycle. Suitable for looping irrigation.
- **self-cleaning**
The anti-deposit silicone membrane and the large maze one guarantee the continuous cleaning of the dripper



Drip line specifications

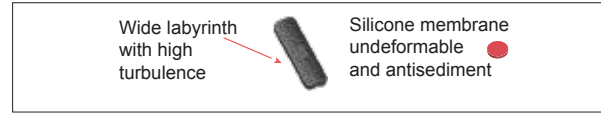
Nominal diameter	Inside diameter	Outside diameter	Wall thickness		Max pressure
	mm		MIL	mm	
16	13.80	15.80	40	1.00	3.50
		16.00	44	1.10	4.00
		16.20	48	1.20	4.00
20	17.60	19.60	40	1.00	3.50
		19.80	44	1.10	4.00
		20.00	48	1.20	4.00

Maximum recommended length on flat terrain (mt)

Nominal diameter	Inside diameter (mm)	Flow rate (l/h)	Pressure (bar)							
			1.5	2.0	2.5	3.0	3.3	4.0	5.0	
16	13.80	1.6	69	88	106	122	132	153	181	1.5
			80	101	122	141	151	176	208	2.0
			95	121	145	167	181	210	249	3.0
		2.4	53	67	81	94	101	117	139	1.5
			61	77	93	108	116	135	160	2.0
			72	92	111	128	138	160	190	3.0
		3.8	39	50	60	70	75	87	103	1.5
			45	57	69	80	86	100	119	2.0
			54	68	82	95	103	119	141	3.0
20	17.60	1.6	99	127	154	179	193	224	267	1.5
			114	146	177	205	221	258	307	2.0
			136	174	210	244	264	307	366	3.0
		2.4	76	97	118	136	148	172	205	1.5
			87	112	135	157	169	198	235	2.0
			104	133	161	187	202	235	280	3.0
		3.8	56	72	87	101	110	128	152	1.5
			65	83	100	116	126	146	175	2.0
			77	98	119	138	149	174	208	3.0

Dripper specifications

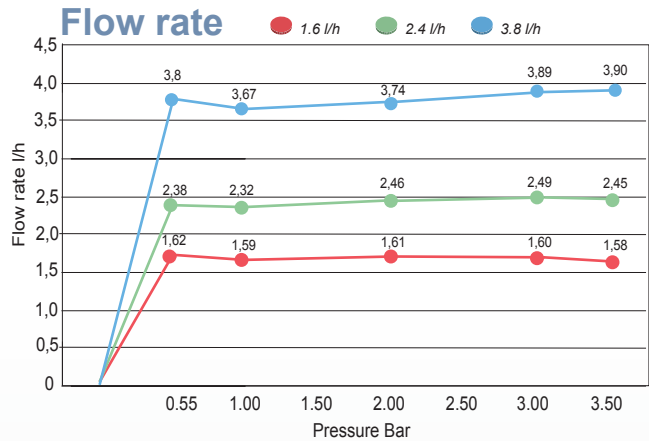
Nominal flow rate: (l/h) 1.6 - 2.4 - 3.8
Standard spacing : (cm) 10 - 15 - 20 - 25 - 30 - 33 - 40 - 50
Special spacing : groups by request



Dripper data

Nominal flow rate		l/h	1,60	2,40	3,80
Coefficient of variation CV		%	6,60	3,50	3,50
Costant K		bar	1,60	2,30	3,60
Exponent		X	0,0	0,0	0,0
Maximum working pressure		bar	4,0	4,0	4,0
Minimum working pressure		bar	0,5	0,5	0,5
Closing pressure*		bar	0,25	0,25	0,25
Dripper flow path	Depth	mm	0,85	0,90	0,90
	Width	mm	1,06	1,19	1,30
	Length	mm	132,0	89,6	78,7
Filtration area		mm ²	37,37	37,37	37,37
Filtration degree		mesh	120	120	120
		micron	130	130	130

*only PC AS ND



Packaging and shipping

Nominal diameter	16				20	
	25	50	100	500	100	300
reel (m)						
pallet (reels)	small 84 100x120xh200 cm	small 50 100x120xh200 cm	small 44 114x114xh200 cm	small 10 80x160xh170 cm	small 44 114x114xh200 cm	small 10 80x160xh170 cm
truck	22 (pallets maxi) 2.640 (reels)	22 (pallets maxi) 1.672 (reels)	22 (pallets maxi) 1.320 (reels)	unpacked 384 (reels)	22 (pallets maxi) 1.320 (reels)	unpacked 384 (reels)
container	10 (pallets small) 840 (reels)	10 (pallets small) 500 (reels)	10 (pallets small) 440 (reels)	unpacked 160 (reels)	10 (pallets small) 440 (reels)	unpacked 160 (reels)
container	20 (pallets maxi) 2.400 (reels)	20 (pallets maxi) 1.520 (reels)	20 (pallets maxi) 1.200 (reels)	unpacked 330 (reels)	20 (pallets maxi) 1.200 (reels)	unpacked 330 (reels)

Fittings

PE starter		4384	17
drill hole 10 mm			
Coupling		4381	17
Elbow		4380	17
Tee		4379	17
End line		4378	17

For other fittings see durafitting

The information contained in this catalog is purely indicative. Aster reserves the right to modify it at any time and in no case can it be held responsible for errors in the data contained in this document.

Duragarden applications with labyrinth type dripper



applications on flat terrain



applications on flat terrain

Duragarden applications with pressure compensating dripper



applications on slope



sub-irrigation



sub-irrigation



application on vertical garden