



## FLAT TYPE PRESSURE COMPENSATED DRIPLINE

### APPLICATIONS

- Sloping terrains
- Fruit crops
- Floriculture or Flower farming
- Olive trees
- Greenhouses
- Vineyards
- Vegetable crops
- Hard-shell products such as almonds, walnuts, pistachio

### FEATURES

- Anti-siphon mechanism prevents clogging caused by soil suction to drippers at the end of the irrigation schedule. Due to this feature, FPC dripline is very ideal for sub-surface installations.
- Silicon diaphragm has a large housing to move freely
- Injected dripper with compact design and smooth inner surface that ensures low dripper friction factor
- Wide filtration area
- Filtration behind the silicon diaphragm prevents entering particles
- Compensation is provided by the cap not with a simple channel, with concave labyrinth design, which prevents clogging by forming turbulent flow
- Self-cleaning mechanism
- Wide water passage section to prevent clogging
- UV resistant
- Resistant to chemicals and fertilizers used in agriculture
- ESC resistance is made according to ISO 8796

### TECHNICAL INFO

#### Nominal diameter:

16 & 20 mm

#### Wall thickness:

12 mil (0,30 mm) - 24 mil (0,60 mm)

#### Nominal flow rates:

1,60 / 2,00 LPH

#### Dripper spacing:

20, 25, 30, 33, 40, 50, 60, 75, 100 & 120 cm

#### Pressure compensating range:

0,5 - 3,5 bar

#### Coil length\*:

600 / 750 / 1000 m

#### Related standards:

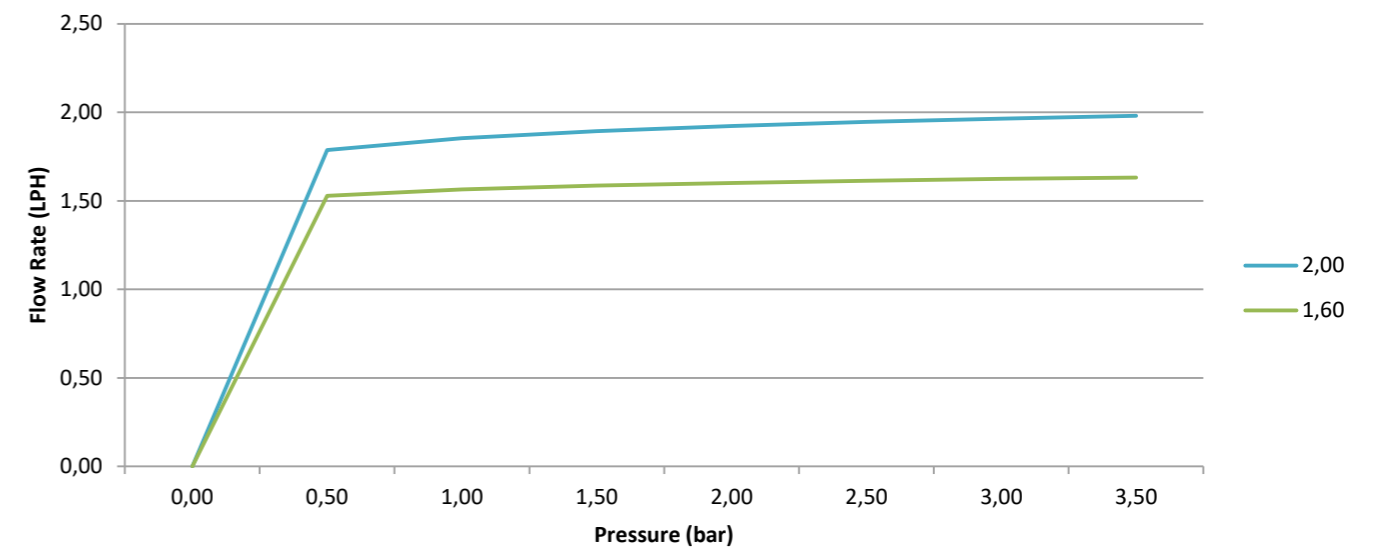
ISO 9261 Agricultural irrigation equipment -- Emitters and emitting pipe -- Specifications and test methods



### DRIPPER TYPES

Nominal flow rate <i>LPH</i>	1,60	2,00
Average flow rate <i>LPH (0,5-3,5 bar)</i>	1,59	1,91
Flow constant <i>k</i>	1,564	1,853
Flow exponent <i>x (*)</i>	0,034	0,053
Flow equation <i>Q = kP<sup>x</sup></i>	1,564 P <sup>0,034</sup>	1,853 P <sup>0,053</sup>
Average CV <i>% (0,5-3,5 bar)</i>	3,329	3,807
Average flow variation <i>% (0,5-3,5 bar)</i>	2,379	3,425
<b>Water passage dimensions</b>		
<i>width (mm)</i>	0,74	0,74
<i>depth (mm)</i>	0,88	0,88
<i>length (mm)</i>	15	15
Filtration area <i>mm<sup>2</sup> x no of inlets</i>	0,196 x 26	0,196 x 26
Required filtration <i>micron/mesh</i>	125/120	125/120

### FLOW RATE VS. PRESSURE



Nominal flow rate <i>LPH</i>	Pressure <i>bar</i>								
	0,00	0,50	1,00	1,50	2,00	2,50	3,00	3,50	
1,60	0,00	1,53	1,56	1,59	1,60	1,61	1,62	1,63	
2,00	0,00	1,79	1,85	1,89	1,92	1,95	1,96	1,98	

\* Coil length changes according to diameter and wall thickness. Please see the loading info tables of each diameter for details.



### TECHNICAL SPECIFICATIONS

Product code	ID mm	Wall thickness mil/mm	OD mm	Max working pressure bar
016 FPC 012 XXX XXX	16,00	12/0,30	16,60	1,50
016 FPC 014 XXX XXX	15,95	14/0,35	16,65	1,50
016 FPC 016 XXX XXX	15,95	16/0,40	16,75	1,80
016 FPC 020 XXX XXX	15,85	20/0,50	16,85	2,00
016 FPC 024 XXX XXX	15,85	24/0,60	17,05	2,00

### MAX RECOMMENDED LATERAL LENGTH (M)

#### • 1,6 LPH

Dripper spacing cm	Inlet pressure bar					
	1	1,5	2	2,5	3	3,5
20	80	98	114	128	136	145
25	98	121	140	154	167	178
30	116	143	166	183	197	211
33	126	155	180	199	216	228
40	150	185	216	235	256	271
50	182	224	257	283	307	326
60	212	261	300	331	357	380
75	253	311	357	395	426	452
100	316	388	445	490	530	565
120	362	445	513	566	609	649
150	429	528	606	668	722	768
200	522	642	737	815	877	934

### MAX RECOMMENDED LATERAL LENGTH (M)

#### • 2,0 LPH

Dripper spacing cm	Inlet pressure bar					
	1	1,5	2	2,5	3	3,5
20	69	85	98	110	118	125
25	85	104	121	132	144	153
30	100	124	143	158	170	182
33	109	134	155	171	186	196
40	129	159	186	202	220	234
50	157	193	222	244	265	281
60	183	225	259	286	308	327
75	218	268	308	341	368	390
100	272	335	384	423	457	487
120	312	384	442	488	525	560
150	370	455	522	576	622	662
200	450	554	636	702	756	805

### LOADING INFO

Product code	Wall thickness mil/mm	Dripper spacing cm	Coil size Diameter x Height mm	Coil length m	Average coil weight kg	Total in 40" HC Container (w/o pallets)		
						Number of coils	Length m	Average weight kg
016 FPC 012 XXX XXX	12/0,30	20-25	480 x 300	1000	18,2	992	992000	18054,4
		30-50	480 x 300	1000	17,0	992	992000	16864,0
016 FPC 014 XXX XXX	14/0,35	20-25	480 x 300	1000	20,8	992	992000	20633,6
		30-50	480 x 300	1000	19,5	992	992000	19344,0
016 FPC 016 XXX XXX	16/0,40	20-25	480 x 300	750	17,6	992	744000	17459,2
		30-50	480 x 300	750	16,6	992	744000	16467,2
016 FPC 020 XXX XXX	20/0,50	20-25	480 x 300	600	17,1	992	595200	16963,2
		30-50	480 x 300	600	16,4	992	595200	16268,8



### TECHNICAL SPECIFICATIONS

Product code	ID mm	Wall thickness mil/mm	OD mm	Max working pressure bar
020 FPC 012 XXX XXX	20,00	12/0,30	20,60	1,40
020 FPC 014 XXX XXX	20,00	14/0,35	20,70	1,40
020 FPC 016 XXX XXX	20,00	16/0,40	20,80	1,60
020 FPC 020 XXX XXX	20,00	20/0,50	21,00	1,80
020 FPC 024 XXX XXX	20,00	24/0,60	21,20	1,80

### MAX RECOMMENDED LATERAL LENGTH (M)

#### • 1,6 LPH

Dripper spacing cm	Inlet pressure bar					
	1	1,5	2	2,5	3	3,5
20	121	149	172	193	206	219
25	148	182	211	232	253	269
30	176	216	250	276	297	318
33	191	235	271	300	326	344
40	227	279	326	355	386	409
50	276	339	388	428	464	493
60	320	394	454	501	540	574
75	381	469	540	597	644	683
100	477	587	673	740	800	852
120	547	673	774	855	920	980
150	649	798	915	1009	1090	1160
200	788	970	1113	1230	1324	1410

### MAX RECOMMENDED LATERAL LENGTH (M)

#### • 2,0 LPH

Dripper spacing cm	Inlet pressure bar					
	1	1,5	2	2,5	3	3,5
20	104	128	148	166	178	189
25	128	157	182	200	218	231
30	152	187	216	238	256	274
33	164	202	234	258	281	297
40	195	240	281	306	333	353
50	238	292	335	369	400	425
60	276	339	391	431	465	494
75	329	405	465	515	555	589
100	411	506	580	638	690	735
120	471	580	667	737	793	845
150	559	688	789	870	939	1000
200	680	836	960	1061	1142	1216

### LOADING INFO

Product code	Wall thickness mil/mm	Dripper spacing cm	Coil size Diameter x Height mm	Coil length m	Average coil weight kg	Total in 40" HC Container (w/o pallets)		
						Number of coils	Length m	Average weight kg
020 FPC 016 XXX XXX	16/0,40	20-25	480 x 300	750	21,4	992	744000	21228,8
		30-50	480 x 300	750	20,4	992	744000	20236,8
020 FPC 020 XXX XXX	20/0,50	20-25	480 x 300	600	21,0	992	595200	20832,0
		30-50	480 x 300	600	20,3	992	595200	20137,6

