

MULTIBAR® F a.s.

CLASSIC DRIPLINE WITH FLAT PRESSURE COMPENSATING AND ANTI-SIPHON DRIPPER

Multibar F AS is the classic dripline with PC (pressure compensated) flat and anti-siphon dripper which keeps the flow rate constant as pressure varies thanks to the characteristics of the dripper and the silicone membrane inside. It guarantees a high level of emission uniformity, of water and nutrients, combining all of this with utmost precision in supply distribution, in any topographical situation. The anti-siphon system prevents intake of impurities and soil particles inside the dripper.

Characteristics and advantages

- Particularly suitable for sub-irrigation and sloped land: it thereby avoids water stressing the roots.
- The flat dripper with turbulent flow labyrinth is self-cleaning during normal operation. Comply with the recommended filtrations.
- The position of the integrated filter turned towards the centre of the pipe, far from stagnation areas, allows clean water intake into the labyrinth.
- Low manufacturing variation coefficients.
- Excellent supply uniformity.
- Multi-seasonal use.

Field of application (cf. page 3)



Tree and orchard crops



Sub-irrigation



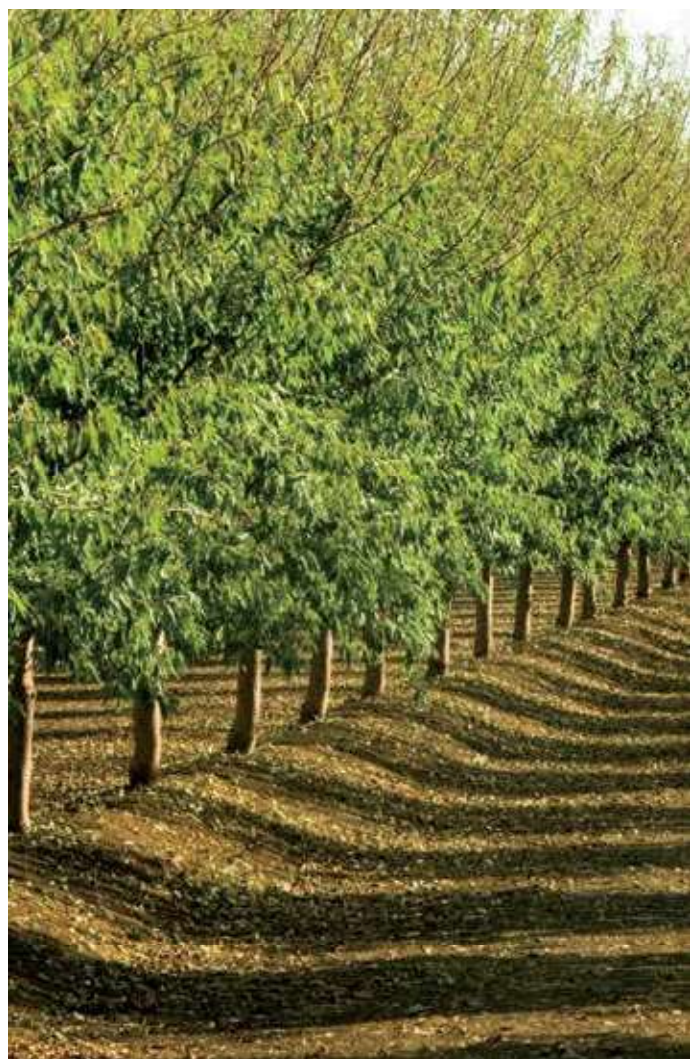
Vineyards



Olive groves



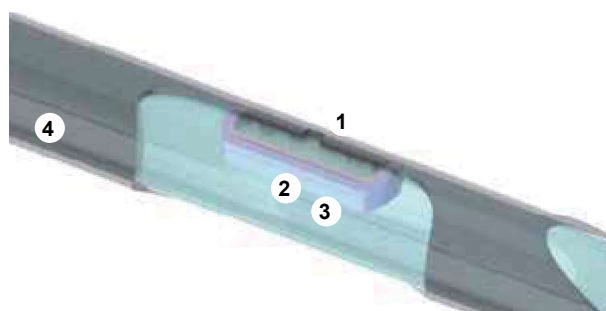
Nurseries



Utmost precision in water distribution in any topographical situation!



MULTIBAR F a.s. dripline



- 1 - Outlet holes
- 2 - Inlet filter with vast filtering surface
- 3 - Turbulent flow labyrinth with low pressure sensitivity
- 4 - Polyethylene pipe

Multibar F a.s. - Dripline technical data

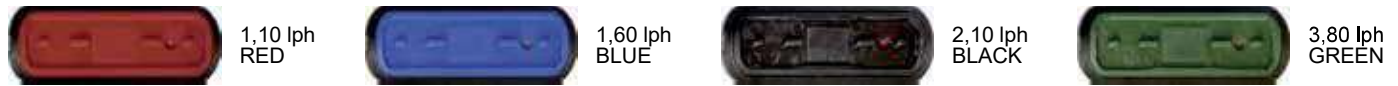
Nominal diameter mm	Internal diameter mm	External diameter mm	Pricelist ref.	Thickness mil mm	Max working pressure bar PSI	Kd -
16	13,8	15,0	FASA24	24 0,6	2,0 29	1,00
		15,6	FASA35	35 0,9	3,0 43,5	
		15,8	FASA40	40 1,0	3,5 51,0	
20	17,7	19,5	FASB35	35 0,9	3,0 43,5	0,30
		19,7	FASB40	40 1,0	3,5 51,0	
23	20,4	22,8	FASH47	47 1,2	3,5 51,0	0,20
25	22,6	25,0	FASF47	47 1,2	3,5 51,0	0,15

Multibar F a.s. - Dripper characteristics

Actual flow rate		Dimensions of labyrinth in mm			Inlet filter		Flow Equation		Minimum working pressure		Recommended filtering mesh	CV
lph a 2,0 bar		Height	Width	Height	Area mm ²	No. holes	k	x	bar	psi		%
1,10		0,7	0,70	50	2,4	3	1,09	0,035	0,5	7	155	4
1,60		0,6	0,70	30	3	9	1,48	0,030	0,5	7	155	4
2,10		0,9	0,70	30	3	9	1,98	0,025	0,5	7	155	4
3,80		0,9	1,05	30	3	9	3,62	0,025	0,5	7	155	4

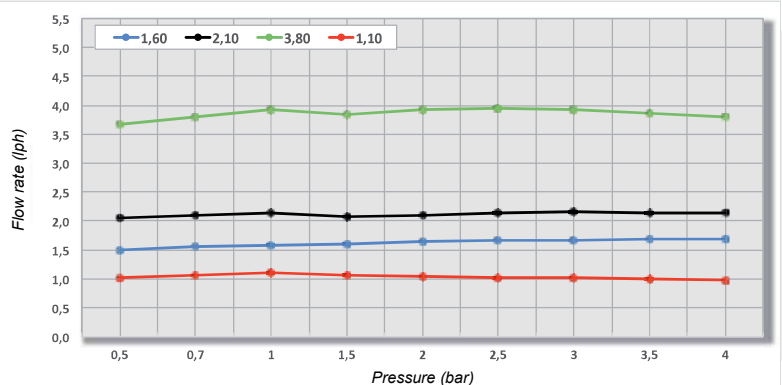
Compensation range: from 0,5 to 4,0 bar

Available flow rates



Multibar F a.s. - Pressure - flow rate ratio

Actual flow rate lph	Pressure (bar)								
	0,5	0,7	1	1,5	2	2,5	3	3,5	4
1,10	1,03	1,07	1,10	1,06	1,05	1,03	1,02	1,00	0,98
1,60	1,50	1,55	1,59	1,61	1,64	1,66	1,67	1,68	1,63
2,10	2,05	2,09	2,15	2,08	2,10	2,14	2,16	2,15	2,15
3,80	3,67	3,79	3,93	3,83	3,92	3,95	3,93	3,87	3,79



Multibar F a.s. - Recommended length in metres, according to the pressure

MULTIBAR F 16 mm										
Q lph	P bar	Spacing (cm)								
		20	30	40	50	60	80	100	125	150
1,10	1	69	98	125	151	175	197	259	306	350
	2	102	146	186	224	259	293	385	455	519
	3	123	176	224	269	312	352	463	547	625
	3,5	132	188	240	288	333	377	495	585	668
1,60	1	56	80	102	122	142	178	211	249	284
	2	83	118	151	181	210	263	312	369	422
	3	100	142	181	218	253	317	376	444	507
	3,5	106	152	194	233	270	338	401	474	542
2,10	1	47	67	86	103	119	149	177	209	239
	2	70	99	127	152	176	221	262	310	354
	3	84	119	152	183	212	266	315	372	426
	3,5	90	128	163	196	227	285	338	399	456
3,80	1	32	46	59	70	81	102	121	143	163
	2	48	68	87	104	121	151	179	212	242
	3	57	82	104	125	145	182	216	255	291
	3,5	61	87	111	134	155	194	230	272	311

MULTIBAR F 20 mm										
Q lph	P bar	Spacing (cm)								
		20	30	40	50	60	80	100	125	150
1,10	1	121	169	212	252	289	324	419	490	557
	2	180	251	315	374	429	481	622	728	825
	3	217	302	380	450	517	579	749	875	993
	3,5	232	323	406	481	552	619	799	935	1061
1,60	1	100	139	174	207	237	293	344	402	457
	2	147	206	258	307	352	435	510	597	678
	3	177	247	311	369	423	523	614	718	814
	3,5	189	264	332	394	452	558	655	766	870
2,10	1	84	117	147	174	200	247	290	339	384
	2	124	173	217	258	296	366	429	503	570
	3	149	208	262	310	356	440	516	604	686
	3,5	159	222	279	332	380	470	552	646	733
3,80	1	57	80	100	119	136	168	197	231	262
	2	85	118	148	176	202	249	293	342	389
	3	102	142	178	212	243	300	352	412	467
	3,5	109	152	190	226	259	320	376	440	499

MULTIBAR F 23 mm										
Q lph	P bar	Spacing (cm)								
		20	30	40	50	60	80	100	125	150
1,10	1	173	239	297	350	400	446	573	667	754
	2	257	354	441	520	593	662	849	989	1120
	3	310	426	530	625	714	796	1022	1191	1348
	3,5	340	468	582	687	750	961	1123	1310	1482
1,60	1	141	194	241	285	325	398	465	542	614
	2	209	287	358	422	482	591	690	804	910
	3	251	346	430	507	579	711	829	967	1094
	3,5	268	369	459	542	618	758	885	1032	1168
2,10	1	119	163	203	240	273	335	392	457	517
	2	176	242	301	355	405	497	581	677	765
	3	211	291	362	427	488	598	699	811	921
	3,5	224	308	384	452	516	634	740	862	976
3,80	1	81	111	138	163	186	229	267	311	352
	2	120	165	205	242	276	339	396	461	522
	3	144	198	247	291	332	408	476	555	628
	3,5	154	213	265	312	356	437	511	595	674

MULTIBAR F 25 mm										
Q lph	P bar	Spacing (cm)								
		20	30	40	50	60	80	100	125	150
1,10	1	200	275	343	404	461	515	661	769	870
	2	297	409	508	600	684	763	980	1142	1292
	3	357	492	612	722	750	918	1179	1374	1555
	3,5	382	526	654	750	750	981	1200	1469	1662
1,60	1	166	227	282	332	378	463	540	629	711
	2	246	337	418	492	561	687	801	932	1054
	3	295	405	503	592	675	825	963	1130	1278
	3,5	318	436	541	637	726	809	1037	1207	1366
2,10	1	140	191	237	279	318	390	455	530	599
	2	207	284	352	414	472	578	675	785	887
	3	249	341	423	498	568	696	811	944	1068
	3,5	266	364	452	532	607	677	866	1008	1140
3,80	1	95	130	162	190	217	266	310	361	408
	2	141	193	240	282	322	394	460	535	605
	3	169	232	288	340	387	474	553	644	728
	3,5	181	248	308	363	413	461	591	688	777

• Q= flow rate lph • P=pressure in bar • Slope=0
Minimum working pressure 0,5 bar.

For fittings and connection valves see page 53
For specific boxing - packaging see page 59