

MULTIBAR® F a.s. - d.s.

CLASSIC DRIPLINE WITH FLAT PRESSURE COMPENSATING AND ANTI-SIPHON AND DROP STOP DRIPPER

Multibar F AS and DS is the classic dripline with PC flat, anti-siphon and Drop Stop dripper which keeps the flow rate constant as pressure varies thanks to the characteristics of the dripper and the silicone membrane inside. It enables a high level of emission uniformity, of water and nutrients, with utmost precision in supply distribution, in any topographical situation, thanks to the working range.

The anti-siphon system prevents intake of impurities and soil particles inside the dripper.

The Drop Stop system avoids emptying the line at the end of each cycle by aligning the times and quantities of the supply on each plant. Synchronised opening and closure of each irrigation cycle improves homogeneous plant growth for a better harvest.

Characteristics and advantages

- Particularly suitable for sub-irrigation and sloped land, avoiding stressing roots with water.
- Flat dripper with turbulent flow labyrinth has passage 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



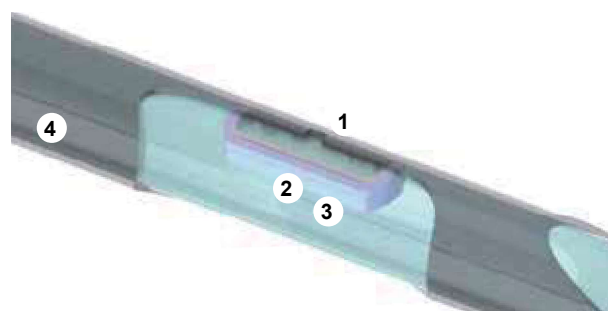
Nurseries



Flat dripper with drop-stop system;
ideal for frequent fertigation cycles!



MULTIBAR F a.s. - d.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. e d.s.

Dripline technical data

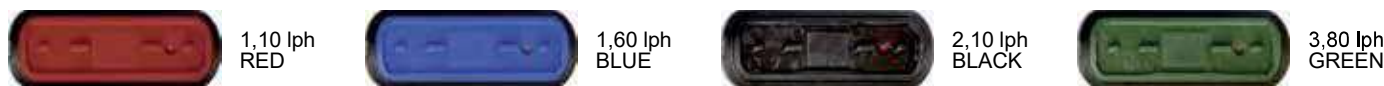
Nominal diameter	Internal diameter	External diameter	Pricelist ref.	Thickness		Max working pressure		Kd
mm	mm	mm	-	mil	mm	bar	PSI	-
16	13,8	15,6	FAQA35	35	0,9	3,0	43,5	1,00
		15,8	FAQA40	40	1,0	3,5	51,0	
20	17,7	19,5	FAQB35	35	0,9	3,0	43,5	0,30
		19,7	FAQB40	40	1,0	3,5	51,0	
23	20,8	22,8	FAQH40	40	1,0	3,0	43,5	0,20
25	22,6	25,0	FAQF47	47	1,2	3,5	51,0	0,15

Multibar F a.s. e d.s. - Dripper characteristics

Actual flow rate lph a 2,0 bar	Dimensions of labyrinth in mm			Inlet filter		Flow Equation		Minimum working pressure		Recommended filtering	DS System bar - psi		HDS System bar - psi		CV
	Height	Width	Height	Area mm ²	No. holes	k	x	bar	psi	mesh	opening	closure	opening	closure	%
1,10	0,7	0,70	50	2,4	3	1,09	0,035	0,7	10	155	0,30 - 4	0,15 - 3	0,40 - 5,8	0,25 - 3,6	4
1,60	0,6	0,70	30	3	9	1,48	0,030	0,7	10	155	0,30 - 4	0,15 - 3	0,40 - 5,8	0,25 - 3,6	4
2,10	0,9	0,70	30	3	9	1,98	0,025	0,7	10	155	0,30 - 4	0,15 - 3	0,40 - 5,8	0,25 - 3,6	4
3,80	0,9	1,05	30	3	9	3,62	0,025	0,7	10	155	0,30 - 4	0,15 - 3	0,40 - 5,8	0,25 - 3,6	4

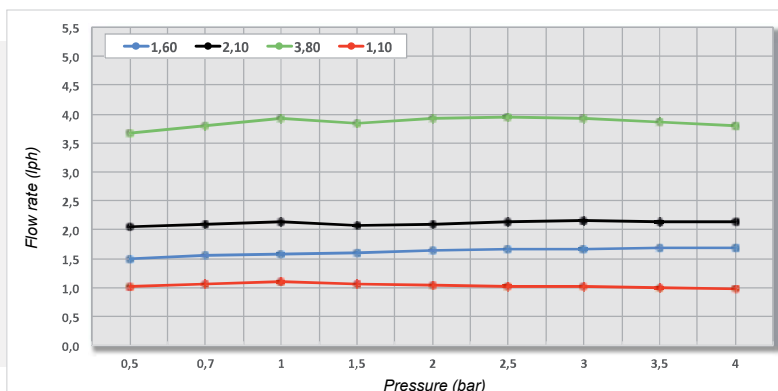
Compensation range: DS version from 0.7 to 4.0 bar - HDS version from 1.0 to 4.0 bar.

Available flow rates



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

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



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

MULTIBAR F a.s. - d.s. 16 mm										
Q lph	P bar	Spacing (cm)								
		20	30	40	50	60	80	100	125	150
1,10	1	59	84	106	128	148	167	220	260	297
	2	99	140	179	215	249	281	370	437	500
	3	121	173	220	264	306	346	455	537	614
	3,5	130	185	236	284	329	371	489	577	659
1,60	1	47	67	86	103	119	135	177	209	239
	2	79	113	144	173	200	226	297	351	401
	3	97	138	176	212	246	278	365	431	493
	3,5	104	148	189	228	264	298	392	463	529
2,10	1	40	56	72	86	100	113	148	175	200
	2	66	94	120	144	167	189	249	294	336
	3	81	116	148	177	205	232	305	361	412
	3,5	87	124	158	190	221	249	328	387	443
3,80	1	28	40	51	61	71	89	106	125	142
	2	46	65	83	100	116	145	172	203	232
	3	56	80	102	122	142	178	211	249	284
	3,5	60	86	109	131	152	191	226	267	305

MULTIBAR F a.s. - d.s. 20 mm										
Q lph	P bar	Spacing (cm)								
		20	30	40	50	60	80	100	125	150
1,10	1	103	144	180	214	245	275	356	416	472
	2	173	242	303	360	413	463	599	700	794
	3	213	297	373	442	507	569	736	860	976
	3,5	229	319	400	475	545	611	789	923	1048
1,60	1	83	115	145	172	197	221	286	335	380
	2	139	194	244	289	332	372	481	563	639
	3	171	238	299	355	407	457	591	691	784
	3,5	183	256	321	381	437	490	634	742	841
2,10	1	69	97	121	144	165	185	239	280	318
	2	116	162	204	242	277	311	402	471	534
	3	143	199	250	297	341	382	494	578	656
	3,5	153	214	269	319	366	410	530	621	704
3,80	1	47	66	83	98	113	126	163	191	216
	2	79	111	139	165	189	212	274	321	364
	3	97	136	171	202	232	260	337	394	447
	3,5	105	146	183	217	249	279	361	423	480

MULTIBAR F a.s. - d.s. 23 mm										
Q lph	P bar	Spacing (cm)								
		20	30	40	50	60	80	100	125	150
1,10	1	147	203	252	297	339	379	486	566	641
	2	247	341	424	500	571	637	817	952	1078
	3	304	419	521	614	701	782	1004	1170	1324
1,60	1	118	163	203	239	273	304	391	455	515
	2	199	274	341	402	458	512	657	765	866
	3	244	336	418	493	563	629	806	940	1064
2,10	1	99	136	169	200	228	255	327	381	431
	2	166	229	285	336	383	428	550	640	725
	3	204	281	350	413	471	526	675	786	889
3,80	1	68	93	116	136	155	174	223	259	294
	2	113	156	194	229	261	292	374	436	494
	3	139	192	238	281	321	358	460	536	607

MULTIBAR F a.s. - d.s. 25 mm										
Q lph	P bar	Spacing (cm)								
		20	30	40	50	60	80	100	125	150
1,10	1	170	234	291	343	391	437	561	654	740
	2	286	393	489	577	659	735	943	1099	1244
	3	350	482	600	708	750	901	1157	1348	1526
	3,5	377	519	645	750	750	969	1200	1450	1641
1,60	1	139	191	237	279	318	354	454	528	597
	2	234	321	398	469	534	596	762	887	1004
	3	287	394	489	575	656	732	936	1090	1233
	3,5	308	423	525	618	704	785	1005	1171	1324
2,10	1	116	160	198	233	266	296	379	442	499
	2	196	268	333	392	447	498	638	743	839
	3	240	329	409	481	549	612	783	912	1031
	3,5	258	354	439	517	589	657	841	979	1107
3,80	1	79	109	135	159	181	202	259	301	340
	2	133	183	227	267	304	339	435	506	572
	3	164	224	279	328	374	417	534	622	703
	3,5	176	241	299	352	401	448	573	667	754

• Q= flow rate lph • P=pressure in bar • Slope=0
Minimum working pressure 0,7 bar.

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