

AZUD PREMIER_{PC}

Better technology, better uniformity.

- 1 **DS Technology** applied to the labyrinth.
- 2 **SILITEC** membrane.
- 3 **ELIPSIS** chamber.
- 4 **H.E.X.** protection system.



What it is

AZUD PREMIER PC is the new flat Pressure Compensating dripper bond-on in multi-seasonal driplines developed by AZUD based on four key elements:

- **DS Technology** applied to the labyrinth.
- **SILITEC** membrane.
- **ELIPSIS** chamber.
- **H.E.X.** protection system.



Application

- For irrigation in intensive crops.
- For tree exploitations.
- For irrigation in greenhouses.

Advantages

- Maximum resistance to clogging. The design of the labyrinth, with **DS Technology** and **H.E.X.** protection system, guarantees a high resistance to clogging.
- Higher pressure-compensating range. **SILITEC** membrane, manufactured in LSR, provides high dimensional, physical, chemical and mechanical accuracy, obtaining a uniform flow rate, high performance of the dripper and higher pressure-compensating range.
- A long life of high performance. **ELIPSIS** is a pressure-compensating chamber designed to the perfect combination together with the membrane, obtaining an optimum performance for a higher work interval not only in the compensation pressures but also in the remaining of its useful life.
- Guaranteed quality. AZUD applies to each dripper a technologically advanced quality control system that guarantees to 100% its performance.





Model AZUD PREMIER PC	AZUD PREMIER PC 16						AZUD PREMIER PC 20						
	1L	1.6L	2L	2.3L	3L	3.5L	1L	1.6L	2L	2.3L	3L	3.5L	
Nominal flow	l/h gph	1.0 0.26	1.6 0.42	2.0 0.53	2.3 0.61	3.0 0.79	3.5 0.92	1.0 0.26	1.6 0.42	2.0 0.53	2.3 0.61	3.0 0.79	3.5 0.92
Inner diameter	mm in	13.7 0.54						17.2 0.68					
Nominal thickness AZUD PREMIER	mm mil	0.9 35		1.0 39		1.1 43		1.1 43					
Nominal thickness AZUD PREMIER RD	mm mil	1.1 43			1.2 47			1.1 43			1.2 47		
Maximum pressure	bar psi	4.0 58						4.0 58					

ISO 9261

Model AZUD PREMIER PC		Discharge equation AZUD PREMIER $q = K \cdot h^x$		Working pressure	
Model		q (l/h) - h (mca)	q (gph) - h (psi)	bar	psi
AZUD PREMIER PC	1L	$q = 1.00 \cdot h^0$	$q = 0.26 \cdot h^0$	0.5 - 4.0	7 - 58 psi
AZUD PREMIER PC	1.6L	$q = 1.60 \cdot h^0$	$q = 0.42 \cdot h^0$	0.5 - 4.0	7 - 58 psi
AZUD PREMIER PC	2L	$q = 2.00 \cdot h^0$	$q = 0.53 \cdot h^0$	0.5 - 4.0	7 - 58 psi
AZUD PREMIER PC	2.3L	$q = 2.30 \cdot h^0$	$q = 0.61 \cdot h^0$	0.5 - 4.0	7 - 58 psi
AZUD PREMIER PC	3L	$q = 3.00 \cdot h^0$	$q = 0.79 \cdot h^0$	0.5 - 4.0	7 - 58 psi
AZUD PREMIER PC	3.5L	$q = 3.50 \cdot h^0$	$q = 0.92 \cdot h^0$	0.5 - 4.0	7 - 58 psi

Model AZUD PREMIER PC							
Nominal diameter		Wall thickness		Standard length of coil		Coils per container 20 ft	Coils per container HC 40 ft
(mm)	(in)	(mm)	(mil)	(m)	(feet)		
16	0.630	0.90	35	500	1640	147	384
16	0.630	1.00	39	500	1640	147	384
16	0.630	1.10	43	500	1640	147	384
20	0.787	1.10	43	300	984	189	432

Model AZUD PREMIER PC RD							
Nominal diameter		Wall thickness		Standard length of coil		Coils per container 20 ft	Coils per container HC 40 ft
(mm)	(in)	(mm)	(mil)	(m)	(feet)		
16	0.630	1.10	43	400	1312	147	384
16	0.630	1.20	47	400	1312	147	384
20	0.787	1.10	43	250	820	147	384
20	0.787	1.20	47	250	820	147	384

SAFETY FITTINGS				
	STRAIGHT CONNECTOR	PVC OFFTAKE CONNECTOR WITH GROMMET	DRILINE VALVE	TEE - CONNECTOR
WE ONLY RECOMMEND ACCESSORIES OFFICIALLY AUTHORISED BY AZUD, CHECK AZUD FIT RANGE				

MAXIMUM DRIPLINE LENGTH AT DIFFERENT INLET PRESSURES

AZUD PREMIER PC 16 / 1L - 1.0 l/h

Inlet pressure		Spacing between emitters*																					
bar	psi	0.20 m 8"		0.25 m 10"		0.30 m 12"		0.33 m 13"		0.40 m 16"		0.50 m 20"		0.60 m 24"		0.75 m 30"		1.00 m 39"		1.25 m 49"		1.50 m 59"	
		m	feet	m	feet	m	feet	m	feet	m	feet	m	feet	m	feet	m	feet	m	feet	m	feet	m	feet
1	14.5	69	226	85	279	101	331	109	358	129	423	157	515	183	600	220	722	276	906	327	1073	379	1243
2	29	101	331	124	407	146	479	159	522	189	620	229	751	268	879	323	1060	407	1335	486	1594	559	1834
3	43.5	119	390	147	482	174	571	189	620	225	738	273	896	319	1047	385	1263	486	1594	581	1906	668	2192
4	58	129	423	165	541	194	636	212	696	251	823	290	951	358	1175	430	1411	546	1791	652	2139	751	2464

AZUD PREMIER PC 16 / 1.6L - 1.6 l/h

Inlet pressure		Spacing between emitters*																					
bar	psi	0.20 m 8"		0.25 m 10"		0.30 m 12"		0.33 m 13"		0.40 m 16"		0.50 m 20"		0.60 m 24"		0.75 m 30"		1.00 m 39"		1.25 m 49"		1.50 m 59"	
		m	feet	m	feet	m	feet	m	feet	m	feet	m	feet	m	feet	m	feet	m	feet	m	feet	m	feet
1	14.5	49	161	61	200	73	239	79	259	94	308	114	374	133	437	161	528	202	663	241	791	274	899
2	29	73	240	89	292	106	348	115	377	137	449	166	545	194	636	234	768	296	971	353	1158	407	1334
3	43.5	86	282	106	348	125	410	137	449	163	535	198	650	232	761	279	915	353	1158	422	1385	485	1591
4	58	97	318	119	391	136	446	153	502	179	587	222	728	259	850	313	1027	395	1296	474	1555	545	1788

AZUD PREMIER PC 16 / 2L - 2.0 l/h

Inlet pressure		Spacing between emitters*																					
bar	psi	0.20 m 8"		0.25 m 10"		0.30 m 12"		0.33 m 13"		0.40 m 16"		0.50 m 20"		0.60 m 24"		0.75 m 30"		1.00 m 39"		1.25 m 49"		1.50 m 59"	
		m	feet	m	feet	m	feet	m	feet	m	feet	m	feet	m	feet	m	feet	m	feet	m	feet	m	feet
1	14.5	43	141	53	174	63	207	68	223	81	266	98	322	115	378	138	453	174	571	207	680	238	781
2	29	63	207	77	253	91	299	100	328	118	387	143	470	168	552	202	663	256	841	305	1001	351	1152
3	43.5	74	243	92	302	108	355	118	387	141	463	171	561	200	657	241	791	306	1005	365	1198	419	1376
4	58	83	273	103	338	122	401	133	437	157	515	192	630	225	739	270	887	343	1126	410	1346	472	1550

AZUD PREMIER PC 16 / 2.3L - 2.3 l/h

Inlet pressure		Spacing between emitters*																					
bar	psi	0.20 m 8"		0.25 m 10"		0.30 m 12"		0.33 m 13"		0.40 m 16"		0.50 m 20"		0.60 m 24"		0.75 m 30"		1.00 m 39"		1.25 m 49"		1.50 m 59"	
		m	feet	m	feet	m	feet	m	feet	m	feet	m	feet	m	feet	m	feet	m	feet	m	feet	m	feet
1	14.5	39	128	48	157	57	187	62	203	74	243	91	299	106	346	126	413	159	522	191	627	218	714
2	29	57	188	70	230	83	272	91	299	107	351	131	430	153	502	185	607	233	764	279	915	322	1056
3	43.5	68	223	83	272	99	325	108	354	128	420	155	509	182	597	220	722	278	912	333	1093	383	1257
4	58	76	251	93	305	110	361	119	390	139	456	174	571	205	673	244	801	306	1004	374	1226	431	1414

AZUD PREMIER PC 16 / 3L - 3.0 l/h

Inlet pressure		Spacing between emitters*																					
bar	psi	0.20 m 8"		0.25 m 10"		0.30 m 12"		0.33 m 13"		0.40 m 16"		0.50 m 20"		0.60 m 24"		0.75 m 30"		1.00 m 39"		1.25 m 49"		1.50 m 59"	
		m	feet	m	feet	m	feet	m	feet	m	feet	m	feet	m	feet	m	feet	m	feet	m	feet	m	feet
1	14.5	33	110	40	131	48	158	52	171	62	205	75	246	88	289	106	347	134	440	159	522	184	604
2	29	48	158	59	194	69	226	76	249	90	297	110	361	128	420	155	509	196	643	234	768	271	889
3	43.5	57	187	70	230	83	272	90	295	107	351	130	427	153	502	185	607	234	768	279	915	323	1060
4	58	62	203	78	256	93	306	101	331	120	394	145	476	172	564	207	679	262	860	313	1027	362	1188

AZUD PREMIER PC 16 / 3.5L - 3.5 l/h

Inlet pressure		Spacing between emitters*																					
bar	psi	0.20 m 8"		0.25 m 10"		0.30 m 12"		0.33 m 13"		0.40 m 16"		0.50 m 20"		0.60 m 24"		0.75 m 30"		1.00 m 39"		1.25 m 49"		1.50 m 59"	
		m	feet	m	feet	m	feet	m	feet	m	feet	m	feet	m	feet	m	feet	m	feet	m	feet	m	feet
1	14.5	30	98	36	118	43	141	47	154	56	184	68	223	80	262	96	315	121	397	144	472	166	545
2	29	43	141	53	174	63	207	68	223	82	269	99	325	116	381	140	459	177	581	212	696	244	801
3	43.5	51	167	63	207	75	246	81	266	97	318	118	387	138	453	167	548	211	692	253	830	292	958
4	58	56	184	69	226	83	272	87	285	104	341	132	433	150	492	185	607	234	768	284	932	328	1076

Thickness: 0.9 mm | 35 mil - 1.0 mm | 39mil - 1.1 mm | 43 mil - 1.2 mm | 47 mil

Øi: 13.7 mm | 0.54 in

* Slope: 0%

* Minimum pressure in the last dripper of the lateral: 0.5 bar.

It is recommended to design the installation with lateral lengths shorter than 800 meter / 2.625 feet.

For other lateral length please, check AZIS, our software of hydraulic calculation in www.azud.com

MAXIMUM DRIPLINE LENGTH AT DIFFERENT INLET PRESSURES

AZUD PREMIER PC 20 / 1L - 1.0 l/h

Inlet pressure		Spacing between emitters*																					
bar	psi	0.20 m 8"		0.25 m 10"		0.30 m 12"		0.33 m 13"		0.40 m 16"		0.50 m 20"		0.60 m 24"		0.75 m 30"		1.00 m 39"		1.25 m 49"		1.50 m 59"	
		m	feet	m	feet	m	feet	m	feet	m	feet	m	feet	m	feet	m	feet	m	feet	m	feet	m	feet
1	14.5	133	436	160	525	186	610	200	656	233	764	276	906	317	1040	373	1224	458	1503	520	1706	550	1804
2	29	194	636	234	768	272	892	293	961	342	1122	406	1332	467	1532	550	1804	683	2241	790	2592	800	2625
3	43.5	230	755	275	902	320	1050	350	1148	400	1312	480	1575	550	1804	650	2133	800	2625	900	2953	950	3117
4	58	259	850	313	1027	364	1194	393	1289	459	1506	550	1804	626	2054	740	2428	912	2992	1065	3494	1070	3510

AZUD PREMIER PC 20 / 1.6L - 1.6 l/h

Inlet pressure		Spacing between emitters*																					
bar	psi	0.20 m 8"		0.25 m 10"		0.30 m 12"		0.33 m 13"		0.40 m 16"		0.50 m 20"		0.60 m 24"		0.75 m 30"		1.00 m 39"		1.25 m 49"		1.50 m 59"	
		m	feet	m	feet	m	feet	m	feet	m	feet	m	feet	m	feet	m	feet	m	feet	m	feet	m	feet
1	14.5	97	318	116	381	135	443	146	479	169	554	201	659	231	758	272	892	334	1096	390	1280	443	1453
2	29	141	463	170	558	197	646	213	699	248	814	295	968	339	1112	401	1316	493	1617	585	1919	650	2133
3	43.5	165	541	200	656	235	771	253	830	295	968	350	1148	400	1312	475	1558	575	1886	675	2215	780	2559
4	58	188	617	227	745	264	866	286	938	333	1093	396	1299	456	1496	540	1772	665	2182	780	2559	885	2904

AZUD PREMIER PC 20 / 2L - 2.0 l/h

Inlet pressure		Spacing between emitters*																					
bar	psi	0.20 m 8"		0.25 m 10"		0.30 m 12"		0.33 m 13"		0.40 m 16"		0.50 m 20"		0.60 m 24"		0.75 m 30"		1.00 m 39"		1.25 m 49"		1.50 m 59"	
		m	feet	m	feet	m	feet	m	feet	m	feet	m	feet	m	feet	m	feet	m	feet	m	feet	m	feet
1	14.5	83	273	100	328	116	381	125	410	146	479	173	568	199	653	234	768	289	949	338	1110	384	1261
2	29	121	397	143	470	170	558	183	601	214	703	255	837	294	965	346	1136	427	1402	500	1642	560	1839
3	43.5	145	476	175	575	203	667	219	716	256	841	305	1001	351	1152	414	1359	510	1675	600	1970	678	2226
4	58	162	532	195	640	227	745	246	808	287	942	345	1133	394	1294	465	1527	570	1872	670	2200	760	2495

AZUD PREMIER PC 20 / 2.3L - 2.3 l/h

Inlet pressure		Spacing between emitters*																					
bar	psi	0.20 m 8"		0.25 m 10"		0.30 m 12"		0.33 m 13"		0.40 m 16"		0.50 m 20"		0.60 m 24"		0.75 m 30"		1.00 m 39"		1.25 m 49"		1.50 m 59"	
		m	feet	m	feet	m	feet	m	feet	m	feet	m	feet	m	feet	m	feet	m	feet	m	feet	m	feet
1	14.5	76	249	92	302	107	351	115	377	134	440	159	522	183	600	215	705	264	866	309	1014	351	1152
2	29	111	364	134	440	156	512	168	551	196	643	233	764	269	883	317	1040	390	1280	458	1503	520	1706
3	43.5	130	427	155	509	180	591	195	640	230	755	275	902	315	1033	375	1230	465	1526	550	1804	620	2034
4	58	148	486	179	587	208	682	225	738	263	863	313	1027	360	1181	426	1398	525	1722	615	2018	700	2297

AZUD PREMIER PC 20 / 3L - 3.0 l/h

Inlet pressure		Spacing between emitters*																					
bar	psi	0.20 m 8"		0.25 m 10"		0.30 m 12"		0.33 m 13"		0.40 m 16"		0.50 m 20"		0.60 m 24"		0.75 m 30"		1.00 m 39"		1.25 m 49"		1.50 m 59"	
		m	feet	m	feet	m	feet	m	feet	m	feet	m	feet	m	feet	m	feet	m	feet	m	feet	m	feet
1	14.5	64	210	77	253	90	295	97	318	112	367	134	440	154	505	181	594	222	728	260	853	296	971
2	29	93	305	113	371	131	430	142	466	165	541	196	643	226	741	267	876	328	1076	385	1263	438	1437
3	43.5	110	361	133	436	155	509	168	551	196	643	234	768	270	886	318	1043	393	1289	461	1512	520	1706
4	58	125	410	150	492	175	574	189	620	221	725	263	863	303	994	356	1168	442	1450	518	1699	590	1936

AZUD PREMIER PC 20 / 3.5L - 3.5 l/h

Inlet pressure		Spacing between emitters*																					
bar	psi	0.20 m 8"		0.25 m 10"		0.30 m 12"		0.33 m 13"		0.40 m 16"		0.50 m 20"		0.60 m 24"		0.75 m 30"		1.00 m 39"		1.25 m 49"		1.50 m 59"	
		m	feet	m	feet	m	feet	m	feet	m	feet	m	feet	m	feet	m	feet	m	feet	m	feet	m	feet
1	14.5	58	190	70	230	81	266	88	289	102	335	121	397	140	459	164	538	201	659	237	778	269	883
2	29	84	276	102	335	119	390	123	404	149	489	177	581	205	673	241	791	297	974	349	1145	396	1299
3	43.5	98	322	117	384	138	453	150	492	175	574	210	689	240	787	285	935	355	1165	415	1362	475	1558
4	58	113	371	136	446	158	518	171	561	200	656	238	781	275	902	324	1063	400	1312	470	1542	535	1755

Thickness: 1.1 mm | 43 mil | 1.2 mm | 47mil

Øi: 17.2 mm | 0.68 in

* Slope: 0%

* Minimum pressure in the last dripper of the lateral: 0.5 bar.

It is recommended to design the installation with lateral lengths shorter than 800 meter / 2.625 feet.

For other lateral length please, check AZIS, our software of hydraulic calculation in www.azud.com



SISTEMA AZUD, S.A.
 Avda. de las Américas P. 6/6 - Pol. Ind. Oeste
 30820 ALCANTARILLA - MURCIA - SPAIN

✉
 Apdo. 147 • 30169 SAN GINÉS - MURCIA - SPAIN
 Tel.: +34 968 808402 • Fax: +34 968 808302
 E-mail: info@azud.com • www.azud.com