

AZUD GENIUN PC MD

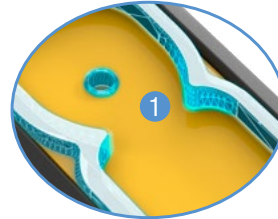
More uniformity for your crop



- 1 Anti-Roots ARS**
Experience against the root intrusion.
- 2 Anti-clogging DS TECHNOLOGY**
The patented security.
- 3 Uniformity SILITEC**
Pharmaceutical technology on the dripper's heart, the membrane.
- 4 Protection H.E.X.**
Exclusive triple 3D filtration system.

DSTechnology

Anti-clogging efficiency
Eficacia antiobturante



What it is

AZUD GENIUN is the dripline, that complies with ISO 9261 specifications, that guarantees the uniform crop growth under any type of terrain, using fewer resource and totally respectful with the environment.

Its self-compensating technology presents itself as the best solution for precision drip irrigation, since it guarantee the flow uniformity throughout the installation.

Application

- Drip irrigation on uneven terrain
- Irrigation of ecologic production crops
- Irrigation of horticultural crops

Advantages

- **Drippers always protected:**
Self-cleaning H.E.X. filtration system, for surface and in-depth solid particles retention.
- **Uniform discharge rate guaranteed along the crop lifecycle:**
The injected membrane is dynamic, which guarantees a precision, reliable and durable pressure-compensated operation and an efficient self-cleaning of the labyrinth.
- **Maximum strength against clogging, certified:**
The self-cleaning labyrinth DS Technology is made up by elliptical cavities that prevent solid particles deposits.
- **Higher protection against root intrusion:**
The ARS system consists of a balance between two arches with different opening angles and a conical design at the water emission point that make root intrusion difficult.



AZUD GENIUN PC		AZUD GENIUN PC 160			
Model		1L	1.6L	2L	3.8L
Nominal flow	l/h gph	1.00 0.26	1.60 0.42	2.00 0.53	3.80 1.00
Inner diameter	mm in	15.5 0.61			
Nominal thickness	mm mil	0.63 25	0.70 28	0.80 32	
Maximum pressure	bar psi	2.8 41	2.9 42	3.0 44	

ISO 9261

Model AZUD GENIUN PC		Discharge equation AZUD GENIUN $q = K \cdot h^x$		Pressure	
Models		q (l/h) - h (mca)	q (gph) - h (psi)	bar	psi
AZUD GENIUN PC	1L	$q = 1.00 \cdot h^0$	$q = 0.26 \cdot h^0$	0.4 - 4.0	6 - 58 psi
AZUD GENIUN PC	1.6L	$q = 1.60 \cdot h^0$	$q = 0.42 \cdot h^0$	0.4 - 4.0	6 - 58 psi
AZUD GENIUN PC	2L	$q = 2.00 \cdot h^0$	$q = 0.53 \cdot h^0$	0.4 - 4.0	6 - 58 psi
AZUD GENIUN PC	3.8L	$q = 3.80 \cdot h^0$	$q = 1.00 \cdot h^0$	0.4 - 4.0	6 - 58 psi

Model AZUD GENIUN PC							
Model	Nominal thickness (mm) (mil)		Spacing between emitters (m)	Coil length (m)	Coils / Pallet	Coils / Container 40' HC	Coils / Truck 81 m ³
160	0.63	25	< 0.20 ≥ 0.20	750 800	12	480	528
160	0.70	28	< 0.20 ≥ 0.20	550 600	12	480	528
160	0.80	32	< 0.20 ≥ 0.20	450 500	12	480	528

AZUD GENIUN PC					Dripline length*											
Model	Nominal thickness mm mil	Inlet pressure bar psi	Spacing between emitters*													
			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"				
1L			193 633	232 761	270 886	291 955	338 1109	402 1319	461 1512	542 1779	461 1512	782 2566				
160 1.6L	0.63	25	142 466	171 561	198 650	214 702	349 1145	296 971	340 1115	401 1316	340 1115	578 1896				
2L	0.63	25	123 404	148 486	172 564	185 607	216 709	256 840	294 965	347 1138	294 965	500 1640				
3.8L			81 266	97 318	113 371	122 400	142 466	169 554	194 636	229 751	194 636	330 1083				
1L			196 643	236 774	273 896	295 968	343 1125	407 1335	467 1532	551 1808	467 1532	793 2602				
160 1.6L	0.70	28	144 472	173 568	201 659	217 712	253 830	300 984	345 1132	406 1332	345 1132	585 1919				
2L	0.70	28	124 407	150 492	174 571	188 617	219 719	260 853	299 981	352 1155	299 981	507 1663				
3.8L			82 269	99 325	115 377	124 407	144 472	171 561	197 646	232 761	197 646	335 1099				
1L			198 650	239 784	277 909	299 981	348 1142	413 1355	474 1555	558 1831	474 1555	804 2638				
160 1.6L	0.80	32	146 479	176 577	204 669	220 722	256 840	304 997	350 1148	412 1352	350 1148	594 1949				
2L	0.80	32	126 413	152 499	177 581	191 627	222 728	263 863	302 991	357 1171	302 991	514 1686				
3.8L			83 272	100 328	116 381	126 413	146 479	174 571	200 656	236 774	200 656	340 1115				

*Slope: 0%
 *Minimum pressure in the last dripper of the lateral: 0.4 bar / 6 psi.
 It is recommended to design the installation with lateral lengths shorter than 800 meters / 2.625 feet.
 For other lateral lengths please, check AZIS, our software of hydraulic calculation in www.azud.com.

SAFETY FITTINGS



STRAIGHT VALVE



STRAIGHT COUPLING



BARBED COUPLING FOR TAPE



BARBED VALVE FOR TAPE

WE ONLY RECOMMEND ACCESSOIRES OFFICIALLY AUTHORISED BY AZUD, CHECK OUR AZUD FIT RANGE