ALBUZ®

Leader in ceramic spray nozzles

50 years

OTHER SPRAYINGS

LOW CROPS

Spray nozzles

PRECISION - RESISTANCE - EFFICACY - LONGEVITY

ORCHARD VINEYARD

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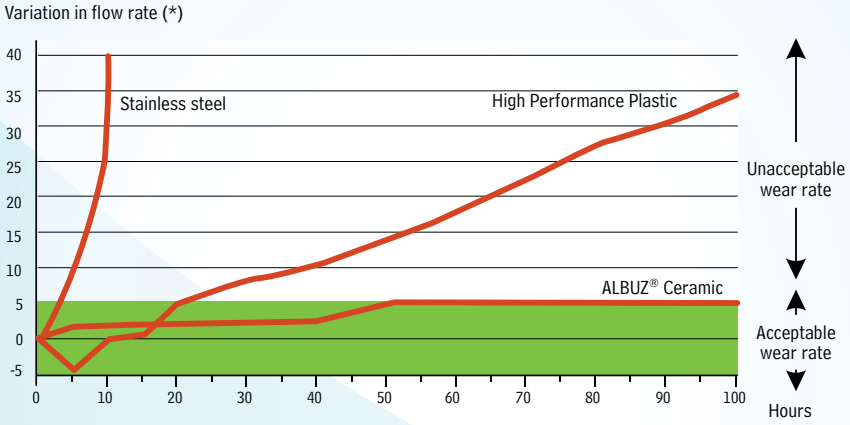
ALBUZ

COMPARATIVE WEAR TEST



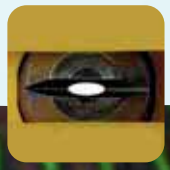
(*) Flow rate variation due to wear in % - Test in accordance with NFU.26.110 equivalent to ISO 5682-1

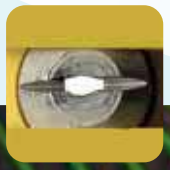
CERAMIC NOZZLE


Before


After 50 h

STAINLESS STEEL NOZZLE


Before


After 50 h

PRECISION WHICH LASTS

For more than 50 years we have been manufacturing and selling ceramic spraying nozzles for agricultural applications. Ceramic nozzles offer an excellent as well as an **exceptional resistance to wear, abrasion and chemicals**.

Manufacturing ceramic nozzles is a complex process. We have a long established expertise in that process and was awarded ISO 9001 Quality Certification.

The manufacturing, from raw materials to assembly and quality control, is done in our plant in Normandy, France.

The outstanding properties of our nozzles make ALBUZ® the unrivalled leader in ceramic spraying nozzles for the agriculture industry. Millions of farmers across 45 countries trust ALBUZ®. Our nozzles are made of a specific pink ceramic grade which is **as hard as diamond**. Their wear resistance is far higher than that of materials such as stainless steel, brass, plastics.

We guarantee a high spray quality and excellent flow rate precision, which allows our nozzles to be certified in numerous countries.

The correct use of our nozzles will enable you to both optimise, and reduce the cost of your agrochemical treatments.

SUMMARY

NOZZLE TECHNOLOGY

04 Droplet size, spraying quality
05 Classification of droplet sizes
Droplet size sprayed by nozzles according to the spraying pressure
06 Nozzle choice : speed of wind, spray coverage
07 Certification, how to read flow rate charts
08 The nozzle range

LOW CROPS

10 APE 80°-110° standard flat spray nozzle
11 ADE 110° drift reduction flat spray nozzle
12 AXI 80°-110° extended range flat spray nozzle
13 AXI-TWIN 120° double jets spray nozzle
14 CVI 110° low pressure Air induction flat spray nozzle
15 CVI-TWIN low pressure Air induction Twin flat spray nozzle
16 AVI 110° air induction flat spray nozzle
17 AVI-TWIN air induction twin flat spray nozzle
18 AVI-UC 110° air induction flat fan spray nozzle with ultra coarse droplet
FAST-CAP AVI-TWIN 110°, FAST-CAP AVI 80°/110°, FAST-CAP AVI-OC 80°
19 ADI 110° drift reduction flat spray nozzle

ORCHARD VINEYARD

20 ATR 80° hollow cone nozzle
21 ATR 60° hollow cone nozzle
22 ATI 80° hollow cone nozzle
23 ATI 60° hollow cone nozzle
24 ATF 60°/80° full cone nozzle
25 TVI 80°/ TVI-LP 80° air Induction hollow Cone spray nozzles
26 AVI 80° air induction flat spray nozzle
27 CVI 80° compact air induction flat spray nozzle
28 DISC & CORE ceramic hollow-cone nozzle
29 AMT metering Disc

OTHER SPRAYINGS

30 MSI wide angle flat spray nozzle
31 MVI air induction wide angle flat spray nozzle
32 ESI 6 jets fertilizer nozzle
33 FESI 6 jets compact cap fertilizer nozzle
34 OCI Off center nozzle
35 CVI-OC compact air induction off center spray nozzle
36 EXA 3 jets fertilizer nozzle
37 AVI-OC air injected off center nozzle

MISTING

38 NAF misting nozzle low and medium pressure
39 TAM misting nozzle full cone 1/8

VARIOUS COMPONENTS

40 Nozzle blister packaging, Nozzle cleaning brush, Filters protect, filter choice
41 Water sensitive paper, misting accessories

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43 Liquid fertilizers, Nozzle cross-reference chart
44 Nozzle choice application for smartphones

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Nozzle technology catalog 2022

SPRAYING QUALITY

The objective of an agrochemical treatment is to reach a biological efficiency to satisfy the needs of the farmers.
Several factors are key to the result of each application:

- **The product used, and its performance;**
- **Criteria influencing the application timing:**
  - › growth stage,
  - › pesticides,
  - › diseases,
  - › general status of pesticide, disease, and weed activity,
  - › climate,
  - › spray quality.

The quality of the spraying application is the top priority of the engineering know-how and expertise of ALBUZ®. The nozzle is a key to the performance of the sprayer. It also influences the biological efficiency of the sprayed product.

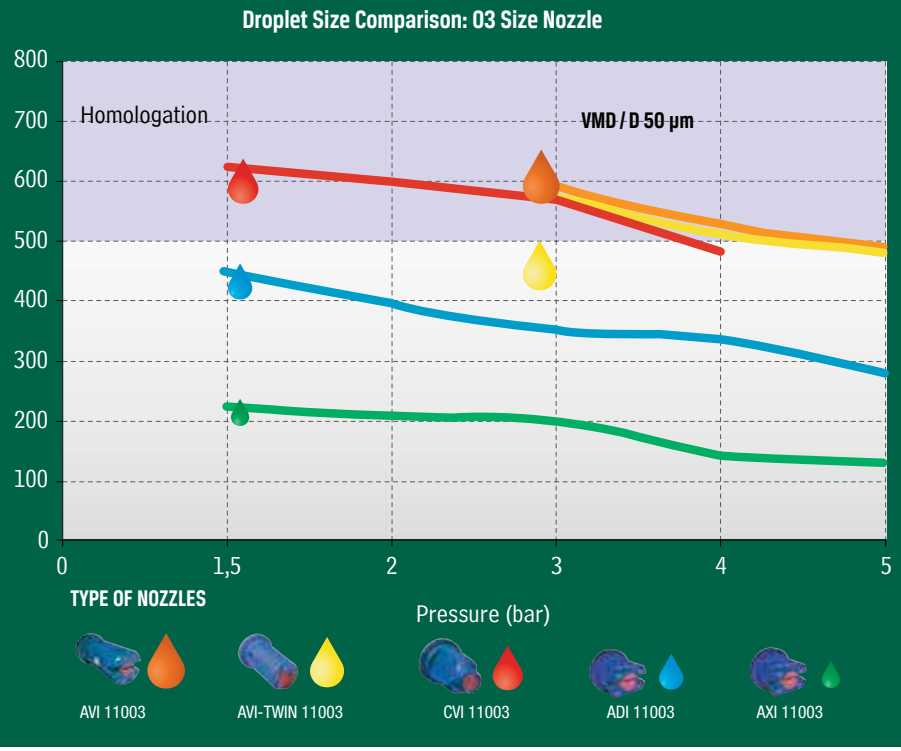
Nozzles are characterized by:
- › Flow;
- › Angle;
- › Spray distribution quality (on the boom);
- › Droplet spectrum;
- › Distribution on target;
- › Drift classification.

ALBUZ® takes into account all those parameters in order to offer a product range that satisfies all the needs of the farming industry. ALBUZ® complies with all environmental regulations. We also anticipate future spraying innovations, by constant investment in R&D.

DROPLET SIZE

The «spray quality» of a nozzle is expressed in terms of its average droplet size in relation to the volume sprayed (VMD). This gives an indication of the risk of drift and of the nozzle to select for a particular application.

Examples:
- For post emergence contact fungicides, an AXI nozzle will be selected because of its VMD of 150 µm and its large number of droplets.
- For an anti-drift nozzle, the AVI or CVI, with a VMD of 450 µm might be chosen as these large droplets reduce the risk of drift.



CLASSIFICATION OF DROPLET SIZES

The nozzle «spray quality» is divided into 6 categories, of which 4 main ones:

- **Fine**: (e.g. AXI) nozzles which produce fine droplets are more often recommended for post-emergence treatments where excellent coverage is necessary.
- **Medium**: (e.g. ADI) nozzles which produce medium droplets are less prone to produce drift, depending on the pressure used.
- **Coarse**: (e.g. AVI/CVI) nozzles which produce big droplets provide a low risk of drift.
- **Very Coarse**: (e.g. AVI) specific nozzles which produce very big droplets.

DROPLET SIZE SPRAYED BY NOZZLES ACCORDING TO THE SPRAYING PRESSURE

bar	ATR 80°									
	WHITE	LILAC	BROWN	YELLOW	ORANGE	RED	GREY	GREEN	BLACK	BLUE
5	VF	VF	VF	VF	VF	F	F	F	F	F
7	VF	VF	VF	VF	VF	F	F	F	F	F
10	VF	VF	VF	VF	VF	F	F	F	F	F
15	VF	VF	VF	VF	VF	VF	F	F	F	F
20	VF	VF	VF	VF	VF	VF	VF	VF	VF	VF

bar	ATR 60°								
	LILAC	BROWN	YELLOW	ORANGE	RED	GREY	GREEN	BLACK	BLUE
5	VF	VF	VF	F	F	F	F	F	F
7	VF	VF	VF	VF	F	F	F	F	F
10	VF	VF	VF	VF	F	F	F	F	F
15	VF	VF	VF	VF	VF	VF	VF	VF	VF
20	VF	VF	VF	VF	VF	VF	VF	VF	VF

bar	ATI 80°									
	LILAC 80-0050	PINK 80-0075	ORANGE 80-01	GREEN 80-015	YELLOW 80-02	PURPLE 80-025	BLUE 80-03	BROWN RED 80-035	RED 80-04	BROWN 80-05
5	VF	VF	VF	VF	VF	F	F	F	F	F
7	VF	VF	VF	VF	VF	F	F	F	F	F
10	VF	VF	VF	VF	VF	VF	F	F	F	F
15	VF	VF	VF	VF	VF	VF	F	F	F	F
20	VF	VF	VF	VF	VF	VF	VF	VF	VF	VF

bar	ATI 60°							
	PINK 60-0075	ORANGE 60-01	GREEN 60-015	YELLOW 60-02	PURPLE 60-025	BLUE 60-03	RED 60-04	BROWN 60-05
5	VF	VF	VF	VF	F	F	F	F
7	VF	VF	VF	VF	F	F	F	F
10	VF	VF	VF	VF	VF	F	F	F
15	VF	VF	VF	VF	VF	F	F	F
20	VF	VF	VF	VF	VF	VF	VF	VF

bar	TVI 80°							
	LILAC 80-0050	PINK 80-0075	ORANGE 80-01	GREEN 80-015	YELLOW 80-02	PURPLE 80-025	BLUE 80-03	RED 80-04
5			UC	UC	UC	UC	UC	UC
7	UC	VC	UC	UC	UC	UC	UC	UC
10	XC	VC	XC	XC	XC	XC	UC	UC
15	VC	C	VC	VC	VC	XC	UC	UC

bar	ATF 80°				
	GREEN 80-015	YELLOW 80-02	PURPLE 80-025	BLUE 80-03	RED 80-04
3	F	F	F	F	F
5	F	F	F	F	F
10	VF	VF	F	F	F
15	VF	VF	VF	VF	VF

bar	MVI			
	RED 04	GREY 06	WHITE 08	LIGHT BLUE 10
1,5	UC	UC	UC	UC
2	UC	UC	UC	UC
3	UC	UC	UC	UC

bar	DISC & CORE						
	AD1/AC13	AD2/AC25	AD2/AC46	AD3/AC13	AD3/AC25	AD4/AC45	AD5/AC45
1,5	VF	VF	VF	VF	VF	F	F
2	VF	VF	VF	VF	VF	VF	VF
3	VF	VF	VF	VF	VF	VF	VF

VF Very fine F Fine M Medium C Coarse VC Very coarse XC Extremely coarse UC Ultra coarse

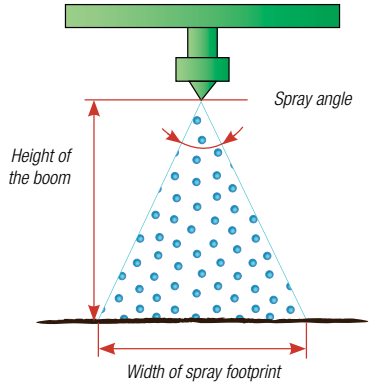
This droplet size classification is based on the VMD of the BCPC and ASABE S572.1 specifications at the date of printing. Classifications are subject to change.

NOZZLE CHOICE : SPEED OF WIND

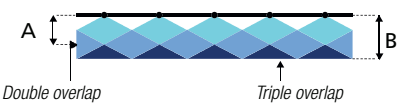
Anti drift with air injection e.g. : AVI	with compression chamber e.g. : adi	Wide range of pressures e.g. : AXI	Normals e.g. : APE	**Wind speed in mph** (Takes into account the speed of the tractor in function of the direction of the wind)	**Looking around us, one observes** (Beaufort scale)
				0	Nothing moves
				0 - 1	Smoke rises straight up
				1 - 5	Smoke shows the direction of wind
				6 - 11	We feel the wind on our face and hear the rustle of leaves
				12 - 15	Leaves and twigs constantly in movement, flags flutter
				16 - 19	
				20 - 28	Papers, dust and sand blow about
				29 - 38	Pine branches sway
				39 - 49	Electric wires whistle
				50 - 61	It is difficult to walk against the wind

SPRAY COVERAGE

The chart below indicates the theoretical overlap of spray patterns. The theoretical width of nozzle spray is determined by the spray angle and by the nozzle height above the target. Considering the effect of earth gravity, the higher the nozzle above the target, the narrower the spray footprint of each nozzle, in relation to the theoretical footprint on the table below.



HEIGHT OF BOOMS



	Nozzle spacing 0,50 m	
	80°	110°
Minimum height	0,80 m	0,40 m
Double overlap A	0,60 m	0,35 m
Triple overlap B	0,90 m	0,70 m
Maximum height	1,20 m	0,80 m

Spray angle (°)	Height of spraying in relation to the plant or to the seedbed											
	20	25	30	35	40	45	50	55	60	70	80	90
15	5	7	8	9	11	12	13	14	16	18	21	24
20	7	9	11	12	14	16	18	19	21	25	28	32
25	9	11	13	16	18	20	22	24	27	31	35	40
30	11	13	16	19	21	24	27	29	32	38	43	48
35	13	16	19	22	25	28	32	35	38	44	50	57
40	15	18	22	25	29	33	36	40	44	51	58	66
45	17	21	25	29	33	37	41	46	50	58	66	75
50	19	23	28	33	37	42	47	51	56	65	75	84
55	21	26	31	36	42	47	52	57	62	73	83	94
60	23	29	35	40	46	52	58	64	69	81	92	104
65	25	32	38	45	51	57	64	70	76	89	102	115
70	28	35	42	49	56	63	70	77	84	98	112	126
75	31	38	46	54	61	69	77	84	92	107	123	138
80	34	42	50	59	67	76	84	92	101	117	134	151
85	37	46	55	64	73	82	92	101	110	128	147	165
90	40	50	60	70	80	90	100	110	120	140	160	180
95	44	55	65	76	87	98	109	120	131	153	175	196
100	48	60	72	83	95	107	119	131	143	167	191	215
110	57	71	86	100	114	129	143	157	171	200	229	
120	69	87	104	121	139	156	173	191	208	242		
130	86	107	129	150	172	193	214	236				
140	110	137	165	192	220	247						
150	149	187	224									
160	227											

10 No overlap - 10 double overlap - 10 triple overlap
10 quadruple overlap - 10 quintuple overlap

CERTIFICATION

SOME EUROPEAN COUNTRIES HAVE SPRAYING REGULATIONS WHICH REQUIRE SENSITIVE AREAS TO BE PROTECTED AND UNTREATED «BUFFER ZONES», IN ORDER TO REDUCE THE RISKS FROM SPRAY DRIFT.
THE DRIFT REFERS TO FINE DROPLETS WHICH DO NOT REACH THE TARGET.
THE FINEST DROPLETS (SMALLER THAN 100 µm) ARE THE MOST SUSCEPTIBLE TO DRIFT FROM THE EFFECT OF THE WIND OR OTHER INFLUENCES.

Drift can have hazardous consequences on:

- Water contamination;
- Human and animal health;
- Nearby vegetation.

ALBUZ® nozzles are certified in France, the United Kingdom, Germany, Belgium and the Netherlands. Please visit our web site to find out the list of our nozzles per country.

ISO and CEN standards specify tolerances on nozzle flow and on spray patternation, to help achieve a precise agrochemical application.

The flow of nozzles (low crops) may vary by +/- 10% maximum of the flow values indicated in the table, but they should vary by only +/-5% of the average value.

In relation to the patternation, this must give a coefficient of variation of less than 7% at a nozzle height specified by the manufacturer, and less than 9% for nozzle above and below that height.

HOW TO READ FLOW RATE CHARTS

Sprayer speed

Colour	ISO code	#	(bar)	l/mn	Liters / hectare - Nozzle spacing: 50 cm								
					6 km/h	7 km/h	8 km/h	9 km/h	10 km/h	12 km/h	14 km/h	16 km/h	18km/h
GREEN	CVI 110015	80 Mesh	1,5	0,42	84	72	63	56	50	42	36	32	28
			2	0,49	98	84	74	65	59	49	42	37	33
			2,5	0,54	108	93	81	72	65	54	46	41	36
			3	0,60	120	103	90	80	72	60	51	45	40
YELLOW	CVI 11002	80 Mesh	1,5	0,57	114	98	86	76	68	57	49	43	38
			2	0,66	132	113	99	88	79	66	57	50	44
			2,5	0,73	146	125	110	97	88	73	63	55	49
			3	0,80	160	137	120	107	96	80	69	60	53
PURPLE	CVI 110025	50 Mesh	1,5	0,71	142	122	107	95	85	71	61	53	47
			2	0,82	164	141	123	109	98	82	70	62	55
			2,5	0,91	182	156	137	121	109	91	78	68	61
			3	1,00	200	171	150	133	120	100	86	75	67

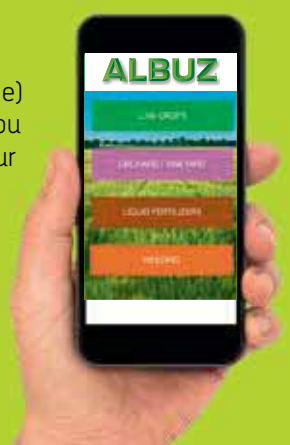
Nozzle to be selected

The flow tables are set out as follows: read the sprayer speed to be used, and follow the column down to the desired application rate in liters per hectare. Then follow this row to the left, and you will find the required spraying pressure and the nozzle to be used.

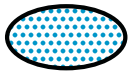
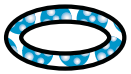
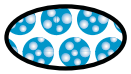
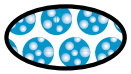
EXAMPLE

If you want a volume of 100 l/ha, at a working speed of 10 km/h, the nozzle to be used will be a lilac 110025 nozzle at 2 bars.

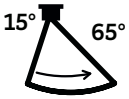
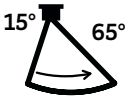
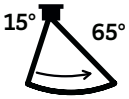
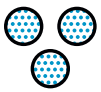
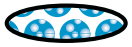
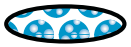
The Albuz application (see last page) also helps you selecting your nozzle.



ORCHARD, VINEYARD

TYPE OF NOZZLES	ATR 60° ATR 80° Hollow cone nozzle	ATI 40° ATI 60° ATI 80° Hollow cone nozzle	ATF 60° ATF 80° Full cone nozzle	TVI 80° Air Induction Hollow Cone spray nozzle	AVI 80° Air induction flat spray nozzle	CVI 80° Compact Air induction flat spray nozzle
						
SPRAY PATTERNATION	 60°-80°	 40°-80°	 60°	 80°	 80°	 80°
DROPLETS SIZE CHARACTERISTICS						
DRIFT HAZARDS	High	High	High	Very Low	Very Low	Very Low
PRESSURE RANGE	5 - 20 bar	5 - 20 bar	3 - 15 bar	10 - 16 bar	10 - 20 bar	10 - 20 bar
HERBICIDES – Incorporated treatement						
HERBICIDES – Taken			Good			
HERBICIDES – Contact	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good
HERBICIDES – Systemic	Good	Good	Very Good	Good	Good	Good
FUNGICIDES – Contact	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good
FUNGICIDES – Systemic			Very Good			
INSECTICIDES – Contact	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good
INSECTICIDES – Systemic			Very Good			
LIQUID FERTILIZER						

OTHER SPRAYINGS

MSI Wide Angle Flat spray nozzle	MVI Air induction Wide Angle Flat spray nozzle	EXA 3 jets Fertilizer nozzle	FESI 6 Jets compact cap Fertilizer nozzle	ESI 6 jets Fertilizer nozzle	OCI Off center nozzle	CVI-OC Compact Air induction off center spray nozzle	AVI-OC Air injected off center nozzle
							
 130°-160°	 130°-160°				 15° 65°	 15° 65°	 15° 65°
							
Medium	Very Low	Very Low	Very Low	Very Low	Medium	Very Low	Very Low
0,5 - 4 bar	1,5 - 4 bar	1 - 3 bar	1,2 - 4 bar	1,2 - 4 bar	2 - 4 bar	2 - 4 bar	3 - 5 bar
Very Good	Very Good				Good	Very Good	Very Good
Very Good	Very Good				Good	Very Good	Very Good
Good	Good				Good	Good	Good
					Good	Very Good	Very Good
					Very Good*	Good	Good
Good	Good				Good	Very Good	Very Good
					Very Good*	Good	Good
Good	Good				Good	Very Good	Very Good
		Very Good	Very Good	Very Good			

European
Colour code

ATR 80° Hollow cone nozzle

MAIN CHARACTERISTICS

- Angle of 80° at 5 bar.
- Hollow cone nozzle producing fine droplets.
- ALBUZ® durable pink ceramic allows high pressure spraying while maintaining nozzle performance and precision.

SPECIFIC CHARACTERISTICS

- Easy dismantling for cleaning.
- JKI certified.
- Can be used on a sprayer boom from 3 bar pressure.
- Precision polished ceramic surfaces of internal components ensure perfect sealing of the swirl chamber to give precise flowrate.
- **Recommended pressure: 10 bar.**
- Information about droplets size (see page 5)

APPLICATIONS

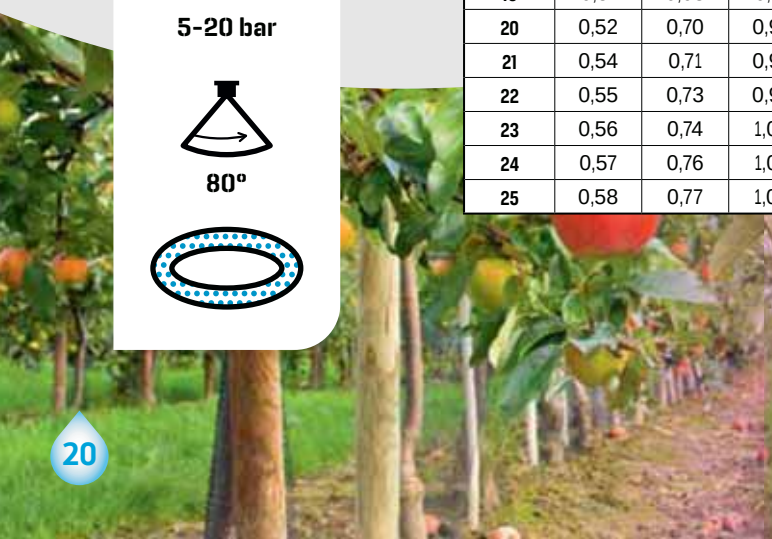
For fungicides and insecticides. Recommended for orchard and vineyards.

5-20 bar

80°

FLOW RATE CHART (l/min)

Pressure (bar)	WHITE	LILAC	BROWN	YELLOW	ORANGE	RED	GREY	GREEN	BLACK	BLUE	PURPLE
		G 1348	G 1349	G 1350	G 1351	G 1352		G 1353		G 1354	
5	0,27	0,36	0,48	0,73	0,99	1,38	1,50	1,78	2,00	2,45	3,05
6	0,29	0,39	0,52	0,80	1,08	1,51	1,63	1,94	2,18	2,67	3,32
7	0,32	0,42	0,56	0,86	1,17	1,62	1,76	2,09	2,35	2,87	3,57
8	0,34	0,45	0,60	0,92	1,24	1,73	1,87	2,22	2,50	3,06	3,81
9	0,36	0,48	0,64	0,97	1,32	1,83	1,98	2,35	2,64	3,24	4,03
10	0,38	0,50	0,67	1,03	1,39	1,92	2,08	2,47	2,78	3,40	4,23
11	0,39	0,52	0,70	1,07	1,45	2,01	2,17	2,58	2,90	3,56	4,43
12	0,41	0,55	0,73	1,12	1,51	2,09	2,26	2,69	3,03	3,71	4,61
13	0,43	0,57	0,76	1,17	1,57	2,17	2,35	2,79	3,14	3,85	4,79
14	0,44	0,59	0,79	1,21	1,63	2,25	2,43	2,89	3,26	3,99	4,96
15	0,46	0,61	0,81	1,25	1,69	2,33	2,51	2,99	3,36	4,12	5,12
16	0,47	0,63	0,84	1,29	1,74	2,40	2,59	3,08	3,47	4,25	5,28
17	0,48	0,64	0,86	1,33	1,79	2,47	2,67	3,17	3,57	4,37	5,43
18	0,50	0,66	0,89	1,37	1,84	2,54	2,74	3,25	3,67	4,49	5,58
19	0,51	0,68	0,91	1,40	1,89	2,60	2,81	3,34	3,76	4,61	5,73
20	0,52	0,70	0,93	1,44	1,94	2,67	2,88	3,42	3,85	4,72	5,87
21	0,54	0,71	0,95	1,48	1,99	2,73	2,95	3,50	3,94	4,84	6,00
22	0,55	0,73	0,98	1,51	2,03	2,79	3,01	3,57	4,03	4,94	6,14
23	0,56	0,74	1,00	1,54	2,07	2,85	3,07	3,65	4,12	5,05	6,27
24	0,57	0,76	1,02	1,58	2,12	2,91	3,14	3,72	4,20	5,15	6,4
25	0,58	0,77	1,04	1,61	2,16	2,97	3,20	3,80	4,28	5,25	6,52



Hollow cone nozzle ATR 60°

European Colour code

SPECIFIC CHARACTERISTICS

- Easy dismantling for cleaning.
- The angle of 60 degrees :
  - Is mostly recommended during the use of the Shielded Sprayer or Tunnel sprayer.
  - The drift is reduced on the top part of the target during the process
- Can be used on a sprayer boom from 3 bar pressure.
- Precision polished ceramic surfaces of internal components ensure perfect sealing of the swirl chamber to give precise flowrate.
- **Recommended pressure: 10 bar.**
- Information about droplets size (see page 5)

MAIN CHARACTERISTICS

- Angle of 60° at 5 bar.
- Hollow cone nozzle producing fine droplets.
- The **green cap** is used to specify that the nozzles has an angle of 60 degrees.
- ALBUZ® durable pink ceramic allows high pressure spraying while maintaining nozzle performance and precision.

FLOW RATE CHART (l/min)

Pressure (bar)	LILAC	BROWN	YELLOW	ORANGE	RED	GREY	GREEN	BLACK	BLUE
5	0,36	0,48	0,73	0,99	1,38	1,50	1,78	2,00	2,45
6	0,39	0,52	0,80	1,08	1,51	1,63	1,94	2,18	2,67
7	0,42	0,56	0,86	1,17	1,62	1,76	2,09	2,35	2,87
8	0,45	0,60	0,92	1,24	1,73	1,87	2,22	2,50	3,06
9	0,48	0,64	0,97	1,32	1,83	1,98	2,35	2,64	3,24
10	0,50	0,67	1,03	1,39	1,92	2,08	2,47	2,78	3,40
11	0,52	0,70	1,07	1,45	2,01	2,17	2,58	2,90	3,56
12	0,55	0,73	1,12	1,51	2,09	2,26	2,69	3,03	3,71
13	0,57	0,76	1,17	1,57	2,17	2,35	2,79	3,14	3,85
14	0,59	0,79	1,21	1,63	2,25	2,43	2,89	3,26	3,99
15	0,61	0,81	1,25	1,69	2,33	2,51	2,99	3,36	4,12
16	0,63	0,84	1,29	1,74	2,40	2,59	3,08	3,47	4,25
17	0,64	0,86	1,33	1,79	2,47	2,67	3,17	3,57	4,37
18	0,66	0,89	1,37	1,84	2,54	2,74	3,25	3,67	4,49
19	0,68	0,91	1,40	1,89	2,60	2,81	3,34	3,76	4,61
20	0,70	0,93	1,44	1,94	2,67	2,88	3,42	3,85	4,72
21	0,71	0,95	1,48	1,99	2,73	2,95	3,50	3,94	4,84
22	0,73	0,98	1,51	2,03	2,79	3,01	3,57	4,03	4,94
23	0,74	1,00	1,54	2,07	2,85	3,07	3,65	4,12	5,05
24	0,76	1,02	1,58	2,12	2,91	3,14	3,72	4,20	5,15
25	0,77	1,04	1,61	2,16	2,97	3,20	3,80	4,28	5,25

APPLICATIONS

For fungicides and insecticides. Recommended for orchard and vineyards.

5-20 bar

60°

ISO

ISO colour code

ATI 80° Hollow cone nozzle

MAIN CHARACTERISTICS

- Angle of 80° at 5 bar.
- Hollow cone nozzle producing fine droplets.
- The **green cap** is used to specify that the nozzles has an angle of 80 degrees.
- ALBUZ® durable pink ceramic allows high pressure spraying while maintaining nozzle performance and precision.

SPECIFIC CHARACTERISTICS

- **Flow rate characteristics, colour code meet international ISO standards.**
- Easy dismantling for cleaning.
- The angle of 80 degrees may be matched with TVI 80° nozzles in order to optimize applications.
- Can be used on a sprayer boom from 3 bar pressure.
- Precision polished ceramic surfaces of internal components ensure perfect sealing of the swirl chamber to give precise flowrate.
- **Recommended pressure: 10 bar.**
- Information about droplets size (see page 5)

APPLICATIONS

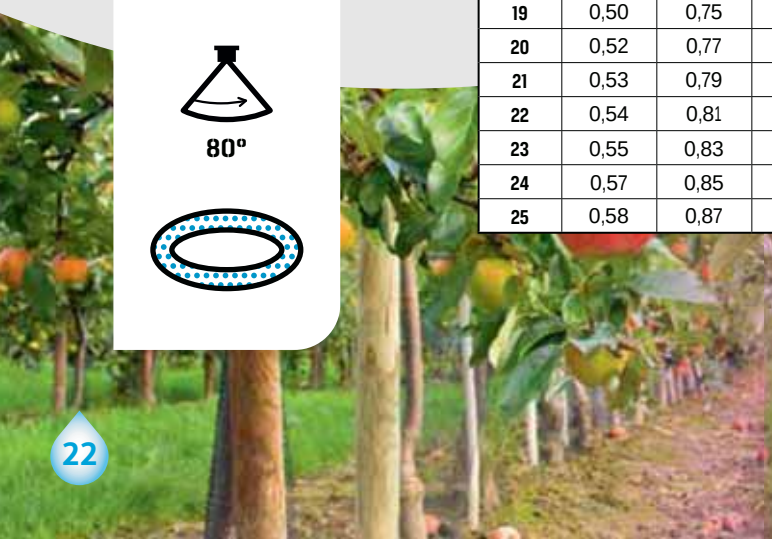
For fungicides and insecticides. Recommended for orchard and vineyards.

5-20 bar

80°

FLOW RATE CHART (l/min)

Pressure (bar)	LILAC 80-0050	PINK 80-0075	ORANGE 80-01	GREEN 80-015	YELLOW 80-02	PURPLE 80-025	BLUE 80-03	BROWN RED 80-035	RED 80-04	BROWN 80-05
3	0,20	-	-	-	-	-	-	-	-	-
4	0,23	-	-	-	-	-	-	-	-	-
5	0,26	0,39	0,52	0,77	1,03	1,29	1,55	1,81	2,07	2,58
6	0,28	0,42	0,57	0,85	1,13	1,41	1,70	1,98	2,26	2,83
7	0,31	0,46	0,61	0,92	1,22	1,53	1,83	2,14	2,44	3,06
8	0,33	0,49	0,65	0,98	1,31	1,63	1,96	2,29	2,61	3,27
9	0,35	0,52	0,69	1,04	1,39	1,73	2,08	2,42	2,77	3,46
10	0,37	0,55	0,73	1,10	1,46	1,83	2,19	2,56	2,92	3,65
11	0,38	0,57	0,77	1,15	1,53	1,91	2,30	2,68	3,06	3,83
12	0,40	0,60	0,80	1,2	1,6	2,00	2,40	2,80	3,20	4,00
13	0,42	0,62	0,83	1,25	1,67	2,08	2,50	2,91	3,33	4,16
14	0,43	0,65	0,86	1,30	1,73	2,16	2,59	3,02	3,46	4,32
15	0,45	0,67	0,89	1,34	1,79	2,24	2,68	3,13	3,58	4,47
16	0,46	0,69	0,92	1,39	1,85	2,31	2,77	3,23	3,70	4,62
17	0,48	0,71	0,95	1,43	1,90	2,38	2,86	3,33	3,81	4,76
18	0,49	0,73	0,98	1,47	1,96	2,45	2,94	3,43	3,92	4,90
19	0,50	0,75	1,01	1,51	2,01	2,52	3,02	3,52	4,03	5,03
20	0,52	0,77	1,03	1,55	2,07	2,58	3,10	3,61	4,13	5,16
21	0,53	0,79	1,06	1,59	2,12	2,65	3,17	3,7	4,23	5,29
22	0,54	0,81	1,08	1,62	2,17	2,71	3,25	3,75	4,33	5,42
23	0,55	0,83	1,11	1,66	2,22	2,77	3,32	3,88	4,43	5,54
24	0,57	0,85	1,13	1,70	2,26	2,83	3,39	3,96	4,53	5,66
25	0,58	0,87	1,15	1,73	2,31	2,89	3,46	4,04	4,62	5,77



ISO

Hollow cone nozzle

ATI 40°/60°

ISO colour code

SPECIFIC CHARACTERISTICS

- **Flow rate characteristics, colour code meet international ISO standards.**
- Easy dismantling for cleaning.
- The angle of 60 degrees :
  - Is mostly recommended during the use of the Shielded Sprayer or Tunnel sprayer.
  - The drift is reduced on the top part of the target during the process
- Can be used on a sprayer boom from 3 bar pressure.
- Precision polished ceramic surfaces of internal components ensure perfect sealing of the swirl chamber to give precise flowrate.
- **Recommended pressure: 10 bar.**
- Information about droplets size (see page 5)

MAIN CHARACTERISTICS

- Angle of 60° at 5 bar
- Hollow cone nozzle producing fine droplets
- The green cap is used to specify that the nozzles has an angle of 60 degrees
- ALBUZ® durable pink ceramic allows high pressure spraying while maintaining nozzle performance and precision

FLOW RATE CHART (l/min)

Pressure (bar)	PINK 60-0075	ORANGE 60-01	GREEN 60-015	YELLOW 60-02	PURPLE 60-025	BLUE 60-03	RED 60-04	BROWN 60-05
5	0,39	0,52	0,77	1,03	1,29	1,55	2,07	2,58
6	0,42	0,57	0,85	1,13	1,41	1,70	2,26	2,83
7	0,46	0,61	0,92	1,22	1,53	1,83	2,44	3,06
8	0,49	0,65	0,98	1,31	1,63	1,96	2,61	3,27
9	0,52	0,69	1,04	1,39	1,73	2,08	2,77	3,46
10	0,55	0,73	1,10	1,46	1,83	2,19	2,92	3,65
11	0,57	0,77	1,15	1,53	1,91	2,30	3,06	3,83
12	0,60	0,80	1,2	1,6	2,00	2,40	3,20	4,00
13	0,62	0,83	1,25	1,67	2,08	2,50	3,33	4,16
14	0,65	0,86	1,30	1,73	2,16	2,59	3,46	4,32
15	0,67	0,89	1,34	1,79	2,24	2,68	3,58	4,47
16	0,69	0,92	1,39	1,85	2,31	2,77	3,70	4,62
17	0,71	0,95	1,43	1,90	2,38	2,86	3,81	4,76
18	0,73	0,98	1,47	1,96	2,45	2,94	3,92	4,90
19	0,75	1,01	1,51	2,01	2,52	3,02	4,03	5,03
20	0,77	1,03	1,55	2,07	2,58	3,10	4,13	5,16
21	0,79	1,06	1,59	2,12	2,65	3,17	4,23	5,29
22	0,81	1,08	1,62	2,17	2,71	3,25	4,33	5,42
23	0,83	1,11	1,66	2,22	2,77	3,32	4,43	5,54
24	0,85	1,13	1,70	2,26	2,83	3,39	4,53	5,66
25	0,87	1,15	1,73	2,31	2,89	3,46	4,62	5,77

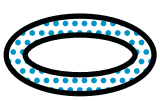
NEW
40° Angle
exists in ATI 40 03 and ATI 40 04. Contact us for other models.

APPLICATIONS

For fungicides and insecticides. Recommended for orchard and vineyards.

5-20 bar

60°



ISO

ISO colour code

ATF 60°/80° Full cone nozzle

MAIN CHARACTERISTICS

› Angle of 80° at 3 bar.

› Full cone nozzle producing fine droplets..

› Albuz durable pink ceramic allows high pressure spraying while maintaining nozzle performance and precision.

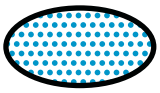
NEW
Angle of 60°
Blue (60 03)
Red (60 04)
Yellow (60 02)
Brown (60 05)

APPLICATIONS

For fungicides and insecticides. Recommended for orchard and vineyards. Recommended to work on a dense vegetation.

3-20 bar

60°/80°



SPECIFIC CHARACTERISTICS

› Flow rate characteristics, colour code meet international ISO standards.

› Use 100 mesh nozzle filters for models 80 015 and 80 02.

› Can be used on a sprayer boom (spacing nozzle between 35cm and 50 cm)

› Recommended pressure on sprayer boom : 3 bar

› Recommended pressure for Orchard or Vineyard : 10 bar

› Information about droplets size (see page 5)

FLOW RATE CHART

Colour	ISO code	#	(bar)	l / mn	Liters / hectare - Nozzle spacing: 50 cm										
					4 km / h	5 km / h	6 km / h	8 km / h	9km / h	10 km / h	12 km / h	14 km / h	16 km / h	18km / h	20km / h
GREEN	ATF 80 015	100 Mesh	3	0,60	180	144	120	90	80	72	60	51	45	40	36
			4	0,69	207	166	138	104	92	83	69	59	52	46	41
			5	0,77	231	185	154	116	103	92	77	66	58	51	46
YELLOW	ATF 80 02 60 02	100 Mesh	3	0,80	240	192	160	120	107	96	80	69	60	53	48
			4	0,91	276	221	184	137	121	109	91	78	68	61	55
			5	1,03	309	247	206	155	137	124	103	88	77	69	62
PURPLE	ATF 80 025	50 Mesh	3	1,00	300	240	200	150	133	120	100	86	75	67	60
			4	1,15	345	276	230	173	153	138	115	99	86	77	69
			5	1,29	387	310	258	194	172	155	129	111	97	86	77
BLUE	ATF 80 03 60 03	50 Mesh	3	1,20	360	288	240	180	160	144	120	103	90	80	72
			4	1,39	417	334	278	209	185	167	139	119	104	93	83
			5	1,55	465	372	310	233	207	186	155	133	116	103	93
RED	ATF 80 04 60 04	50 Mesh	3	1,60	480	384	320	240	213	192	160	137	120	107	96
			4	1,85	555	444	370	278	247	222	185	159	139	123	111
			5	2,07	621	497	414	311	276	248	207	177	155	138	124
BROWN	ATF 80 05 60 05	50 Mesh	3	2	600	480	400	300	267	240	200	171	150	133	120
			4	2,31	693	554	462	347	308	277	231	198	173	154	139
			5	2,58	774	619	516	387	344	310	258	221	194	172	155

Pressure (bar)	litres / mn					
	GREEN 80-015	YELLOW 80-02	PURPLE 80-025	BLUE 80-03	RED 80-04	BROWN 80-05
3	0,60	0,80	1,00	1,20	1,60	2,00
4	0,69	0,91	1,15	1,39	1,85	2,31
5	0,77	1,03	1,29	1,55	2,07	2,58
6	0,85	1,13	1,41	1,70	2,26	2,83
7	0,92	1,22	1,53	1,83	2,44	3,06
8	0,98	1,31	1,63	1,96	2,61	3,27
9	1,04	1,39	1,73	2,08	2,77	3,46
10	1,10	1,46	1,83	2,19	2,92	3,65
11	1,15	1,53	1,91	2,30	3,06	3,83
12	1,2	1,6	2,00	2,40	3,20	4,00
13	1,25	1,67	2,08	2,50	3,33	4,16
14	1,30	1,73	2,16	2,59	3,46	4,32
15	1,34	1,79	2,24	2,68	3,58	4,47
16	1,39	1,85	2,31	2,77	3,70	4,62
17	1,43	1,90	2,38	2,86	3,81	4,76
18	1,47	1,96	2,45	2,94	3,92	4,90
19	1,51	2,01	2,52	3,02	4,03	5,03
20	1,55	2,07	2,58	3,10	4,13	5,16
21	1,59	2,12	2,65	3,17	4,23	5,29
22	1,62	2,17	2,71	3,25	4,33	5,42
23	1,66	2,22	2,77	3,32	4,43	5,54
24	1,70	2,26	2,83	3,39	4,53	5,66
25	1,73	2,31	2,89	3,46	4,62	5,77

Air Induction Hollow Cone spray nozzle TVI 80°

ISO

ISO colour code

SPECIFIC CHARACTERISTICS

- Easy dismantling for a good cleaning.
- 3 ceramic components for more wear resistance.
- Can be used on a boom from a pressure of 5 bar using a special bayonette cap.
- Compact size: length 19 mm.
- Model 80 0050: recommended pressure from 7 bar.
- **Recommended pressure: 10 bar.**

› Information about droplets size (see page 5)

NEW

3 low pressure nozzles

Purple, pink and orange

TVI LP Models not JKI approved to date

MAIN CHARACTERISTICS

- 80° angle at 5 bar.
- Air-induction hollow cone nozzle (Venturi system) spraying large drops filled with air bubbles which do not drift and explode into fine droplets in contact with the plant.
- ALBUZ® durable pink ceramic allows high spraying pressures to be used while maintaining performance and precision.

IMPORTANT ! Use 200 mesh nozzle filters for models 80 0050 - 80 0075 and 100 mesh filters for the other sizes.

FLOW RATE CHART (L/MIN)

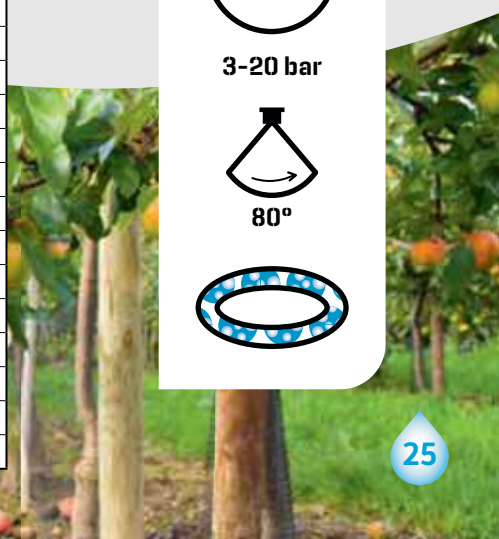
bar	LILAC 80-0050	PINK 80-0075	ORANGE 80-01	GREEN 80-015	YELLOW 80-02	PURPLE 80-025	BLUE 80-03	RED 80-04
	JKI G 1752			JKI G 1751			JKI G 1897	
3	0,20	0,30	0,40	-	-	-	-	-
4	0,23	0,35	0,46	-	-	-	-	-
5	0,26	0,39	0,52	0,77	1,03	1,29	1,55	2,07
6	0,28	0,42	0,57	0,85	1,13	1,41	1,70	2,26
7	0,31	0,46	0,61	0,92	1,22	1,53	1,83	2,44
8	0,33	0,49	0,65	0,98	1,31	1,63	1,96	2,61
9	0,35	0,52	0,69	1,04	1,39	1,73	2,08	2,77
10	0,37	0,55	0,73	1,10	1,46	1,83	2,19	2,92
11	0,38	0,57	0,77	1,15	1,53	1,91	2,30	3,06
12	0,40	0,60	0,80	1,2	1,6	2,00	2,40	3,20
13	0,42	0,62	0,83	1,25	1,67	2,08	2,50	3,33
14	0,43	0,65	0,86	1,30	1,73	2,16	2,59	3,46
15	0,45	0,67	0,89	1,34	1,79	2,24	2,68	3,58
16	0,46	0,69	0,92	1,39	1,85	2,31	2,77	3,70
17	0,48	0,71	0,95	1,43	1,90	2,38	2,86	3,81
18	0,49	0,73	0,98	1,47	1,96	2,45	2,94	3,92
19	0,50	0,75	1,01	1,51	2,01	2,52	3,02	4,03
20	0,52	0,77	1,03	1,55	2,07	2,58	3,10	4,13
21	0,53	0,79	1,06	1,59	2,12	2,65	3,17	4,23
22	0,54	0,81	1,08	1,62	2,17	2,71	3,25	4,33
23	0,55	0,83	1,11	1,66	2,22	2,77	3,32	4,43
24	0,57	0,85	1,13	1,70	2,26	2,83	3,39	4,53
25	0,58	0,87	1,15	1,73	2,31	2,89	3,46	4,62

APPLICATIONS

For fungicide and insecticide treatments. Recommended for orchard and vineyards.

3-20 bar

80°



ISO

AVI 80° Air induction flat spray nozzle

MAIN CHARACTERISTICS

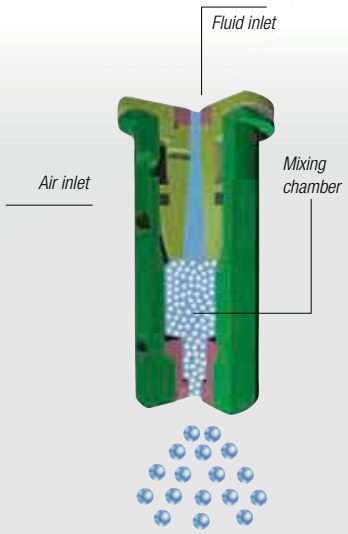
- **Designed to be used over a wide range of pressures (from 10 to 20 bar).**
- Pink ALBUZ® ceramic orifice with excellent precision and high wear resistance.
- Flat fan pattern, angle of 80° at 3 bars.
- Can be used for treatments up to 8 metres height.

SPECIFIC CHARACTERISTICS

- Air induction nozzle (Venturi System): sprays large droplets charged with air bubbles, which minimise drift, burst on impact with the target, spreading fine droplets over the plant surfaces.
- Increase retention of the product on the foliage, and reduce product losses to the ground.
- Reduce dramatically the drift, while enhancing the number of "impacts" of product on the target, (excellent coverage of the treated zones)
- Anti-clogging design and double air-intake orifices.
- Compact design (length 28 mm) adapted to all booms and nozzle holders.
- **Recommended operating pressures: between 10 and 14 bar.**
- **Recommended pressure : 10 bar**

APPLICATIONS

Particularly recommended for the orchards treatments of systemic and contact products.



FLOW RATE CHART (l/min)

Pressure (bar)	ORANGE 8001	GREEN 80015	YELLOW 8002	PURPLE 80025	BLUE 8003	RED 8004
	JKI G 1721	JKI G 1634	JKI G 1635		JKI G 1636	
	100 Mesh	100 Mesh	100 Mesh	50 Mesh	50 Mesh	50 Mesh
10	0,73	1,10	1,46	1,83	2,19	2,92
11	0,77	1,15	1,53	1,91	2,30	3,06
12	0,80	1,20	1,60	2,00	2,40	3,20
13	0,83	1,25	1,67	2,08	2,50	3,33
14	0,86	1,30	1,73	2,16	2,59	3,46
15	0,89	1,34	1,79	2,24	2,68	3,58
16	0,92	1,39	1,85	2,31	2,77	3,70
17	0,95	1,43	1,90	2,38	2,86	3,81
18	0,98	1,47	1,96	2,45	2,94	3,92
19	1,01	1,51	2,01	2,52	3,02	4,03
20	1,03	1,55	2,07	2,58	3,10	4,13
21	1,06	1,59	2,12	2,65	3,17	4,23
22	1,08	1,62	2,17	2,71	3,25	4,33
23	1,11	1,66	2,22	2,77	3,32	4,43
24	1,13	1,70	2,26	2,83	3,39	4,53
25	1,15	1,43	2,31	2,89	3,46	4,62

Compact air induction flat spray nozzle CVI 80°

SPECIFIC CHARACTERISTICS

- Air induction nozzle (Venturi System): sprays large droplets filled with air bubbles, which minimise drift and burst in contact with the target, spreading fine droplets over the plant surfaces.
- Increase retention of the product on the foliage, and reduce product losses to the ground.
- Reduce dramatically the drift, while enhancing the number of "impacts" of product on the target, (excellent coverage of the treated zones).
- Anti-clogging design and double air-intake orifices.
- Compact design (length 22 mm) adapted to all booms and nozzle holders.
- Recommended operating pressures: between 10 and 14 bar.
- **Recommended pressure: 10 bar.**

MAIN CHARACTERISTICS

- **Designed to be used over a wide range of pressures (from 10 to 20 bar).**
- Pink ALBUZ® ceramic orifice (excellent precision and high wear resistance).
- Flat fan pattern, angle of 80° at 3 bars.
- Can be used for treatments up to 8 metres height.

NEW Nozzle

FLOW RATE CHART (l/min)

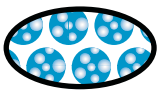
Pressure (bar)	ROSE 800075	ORANGE 8001	GREEN 80015	YELLOW 8002	PURPLE 80025	BLUE 8003	RED 8004	BROWN 8005	GREY 8006
		G 1900	G 1901	G 1902					
	200 Mesh	100 Mesh	100 Mesh	100 Mesh	50 Mesh	50 Mesh	50 Mesh	50 Mesh	50 Mesh
10	0,55	0,73	1,10	1,46	1,83	2,19	2,92	3,65	4,38
11	0,57	0,77	1,15	1,53	1,91	2,30	3,06	3,83	4,60
12	0,60	0,80	1,20	1,60	2,00	2,40	3,20	4,00	4,80
13	0,62	0,83	1,25	1,67	2,08	2,50	3,33	4,16	5,00
14	0,65	0,86	1,30	1,73	2,16	2,59	3,46	4,32	5,18
15	0,67	0,89	1,34	1,79	2,24	2,68	3,58	4,47	5,37
16	0,69	0,92	1,39	1,85	2,31	2,77	3,70	4,62	5,54
17	0,71	0,95	1,43	1,90	2,38	2,86	3,81	4,76	5,71
18	0,73	0,98	1,47	1,96	2,45	2,94	3,92	4,90	5,88
19	0,75	1,01	1,51	2,01	2,52	3,02	4,03	5,03	6,04
20	0,77	1,03	1,55	2,07	2,58	3,10	4,13	5,16	6,20
21	0,79	1,06	1,59	2,12	2,65	3,17	4,23	5,29	6,35
22	0,81	1,08	1,62	2,17	2,71	3,25	4,33	5,42	6,50
23	0,83	1,11	1,66	2,22	2,77	3,32	4,43	5,54	6,65
24	0,85	1,13	1,70	2,26	2,83	3,39	4,53	5,66	6,79
25	0,87	1,15	1,43	2,31	2,89	3,46	4,62	5,77	6,93

APPLICATIONS

Particularly recommended for the application of systemic and contact products.

10-20 bar

80°



DISC & CORE

Ceramic hollow-cone nozzle

SPECIFIC CHARACTERISTICS

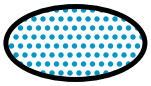
- ALBUZ® durable pink ceramic construction allows high spraying pressures to be used while maintaining performance and precision.
- Hollow cone nozzle spraying fine droplets.
- The combinations of Discs (AD) and Cores (AC) allow a wide choice of uses.
- **Recommended pressure: 10 bar.**
- Information about droplets size (see page 5)

APPLICATIONS

All types of treatments (herbicides, fungicides,insecticides ...)

3-20 bar

80°



Full cone

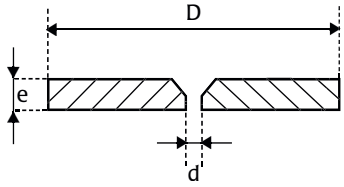
HOLLOW CONE TABLE

		Orifice diameters	l / mn							Angles	
			3 bar	4 bar	5 bar	6 bar	10 bar	15 bar	20 bar	10 bar	20 bar
AD 1	AC 13	0,80	0,24	0,27	0,30	0,33	0,41	0,49	0,56	70°	79°
AD 2	AC 13	1,02	0,31	0,35	0,39	0,42	0,53	0,64	0,73	87°	97°
AD 3	AC 13	1,20	0,36	0,41	0,45	0,49	0,61	0,74	0,84	89°	98°
AD 4	AC 13	1,56	0,45	0,52	0,57	0,62	0,78	0,93	1,06	99°	103°
AD 5	AC 13	2,00	0,55	0,62	0,69	0,75	0,94	1,13	1,29	102°	105°
AD 1	AC 23	0,80	0,28	0,32	0,35	0,38	0,48	0,57	0,65	66°	74°
AD 2	AC 23	1,02	0,37	0,43	0,47	0,51	0,64	0,77	0,88	83°	93°
AD 3	AC 23	1,20	0,44	0,51	0,56	0,61	0,76	0,92	1,04	84°	92°
AD 4	AC 23	1,56	0,56	0,64	0,71	0,77	0,97	1,16	1,32	92°	98°
AD 5	AC 23	2,00	0,72	0,82	0,91	0,99	1,24	1,49	1,70	96°	99°
AD 6	AC 23	2,40	0,85	0,97	1,07	1,16	1,46	1,75	2,00	99°	101°
AD 1	AC 25	0,80	0,41	0,46	0,51	0,55	0,70	0,84	0,95	50°	60°
AD 2	AC 25	1,02	0,59	0,67	0,74	0,80	1,01	1,21	1,38	57°	66°
AD 3	AC 25	1,20	0,72	0,81	0,90	0,98	1,23	1,48	1,68	63°	69°
AD 4	AC 25	1,56	1,02	1,16	1,28	1,39	1,75	2,10	2,39	75°	80°
AD 5	AC 25	2,00	1,41	1,60	1,77	1,92	2,42	2,90	3,30	77°	80°
AD 6	AC 25	2,40	1,73	1,97	2,18	2,37	2,98	3,57	4,07	82°	85°
AD 7	AC 25	2,80	2,07	2,36	2,61	2,83	3,57	4,28	4,87	88°	91°
AD 1	AC 45	0,80	0,48	0,55	0,61	0,66	0,83	1,00	1,14	32°	39°
AD 2	AC 45	1,02	0,73	0,83	0,92	1,00	1,26	1,51	1,72	46°	53°
AD 3	AC 45	1,20	0,92	1,05	1,16	1,26	1,58	1,90	2,16	48°	52°
AD 4	AC 45	1,56	1,35	1,54	1,70	1,85	2,32	2,79	3,17	59°	60°
AD 5	AC 45	2,00	1,92	2,19	2,42	2,63	3,31	3,97	4,52	68°	70°
AD 6	AC 45	2,40	2,46	2,79	3,09	3,35	4,22	5,07	5,77	72°	75°
AD 7	AC 45	2,80	3,01	3,43	3,79	4,11	5,18	6,21	7,07	79°	80°
AD 1	AC 46	0,80	0,55	0,62	0,69	0,75	0,94	1,13	1,29	23°	27°
AD 2	AC 46	1,02	0,92	1,05	1,16	1,26	1,58	1,90	2,16	26°	30°
AD 3	AC 46	1,20	1,20	1,37	1,51	1,64	2,06	2,48	2,82	30°	30°
AD 4	AC 46	1,56	2,03	2,32	2,56	2,78	3,50	4,20	4,78	35	35
AD 5	AC 46	2,00	3,11	3,54	3,91	4,24	5,34	6,41	7,30	40°	42°
AD 6	AC 46	2,40	4,12	4,69	5,18	5,62	7,08	8,49	9,67	45	46
AD 7	AC 46	3,23	5,49	6,40	7,10	7,84	10,16	12,43	14,33	55°	53°

FULL CONE TABLE

		Orifice diameters	l / mn							Angles	
			3 bar	4 bar	5 bar	6 bar	10 bar	15 bar	20 bar	10 bar	20 bar
AD 1	AC 31	0,80	0,53	0,61	0,67	0,73	0,92	1,10	1,25	39°	39°
AD 2	AC 31	1,02	0,82	0,93	1,03	1,12	1,41	1,69	1,92	87°	95°
AD 3	AC 31	1,20	0,87	0,99	1,10	1,19	1,50	1,80	2,05	65°	62°
AD 1	AC 35	0,80	0,53	0,61	0,67	0,73	0,92	1,10	1,25	34°	40°
AD 2	AC 35	1,02	0,92	1,05	1,16	1,26	1,58	1,90	2,16	39°	39°
AD 3	AC 35	1,20	1,28	1,46	1,61	1,75	2,20	2,64	3,00	44°	42°
AD 4	AC 35	1,56	2,08	2,37	2,62	2,84	3,58	4,30	4,89	77°	72°
AD 5	AC 35	2,00	2,62	2,98	3,30	3,58	4,51	5,41	6,16	37°	34°
AD 2	AC 56	1,02	0,88	1,00	1,11	1,20	1,52	1,82	20,7	21°	20°
AD 3	AC 56	1,20	1,19	1,36	1,50	1,63	2,05	2,46	2,80	28°	32°
AD 4	AC 56	1,56	2,05	2,33	2,58	2,8	3,52	4,23	4,81	35°	38°
AD 5	AC 56	2,00	3,46	3,94	4,36	4,73	5,96	7,15	8,14	43°	40°
AD 6	AC 56	2,10	5,11	5,82	6,43	6,98	8,78	10,54	12,00	56°	49°
AD 7	AC 56	2,30	6,87	7,81	8,64	9,38	11,80	14,17	16,12	68°	64°

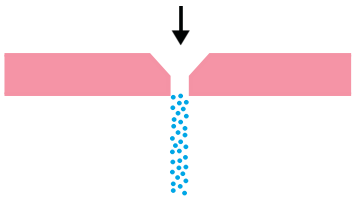
Metering Disc AMT



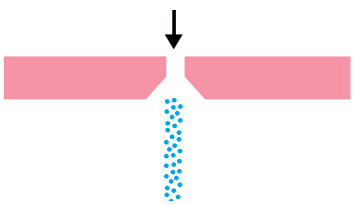
APPLICATIONS

ALBUZ ceramic characteristics allow spraying high pressures while maintaining performance and precision. Exist in several dimensions: diameters 7, 15, 16 and 18mm.

REF	7010	7011	7012	7015	7018	7020	7023	15007	15008	15010	15012	15015	15018	15020	15023	15030	15040	15060	16008	16010	16012	16015	16016	16020	16023	16028	16032	16036	18008	18010	18012	18015	18018	18020	18023
D (mm)	7	7	7	7	7	7	7	15	15	15	15	15	15	15	15	15	15	15	16	16	16	16	16	16	16	16	16	16	18	18	18	18	18	18	18
d* (mm)	1,0	1,1	1,2	1,5	1,8	2,0	2,3	0,7	0,8	1,0	1,2	1,5	1,8	2,0	2,3	3,0	4,0	6,0	0,8	1,0	1,2	1,5	1,6	2,0	2,3	2,8	3,2	3,6	0,8	1,1	1,2	1,5	1,8	2,0	2,3
e (mm)	3,1	3,1	3,1	3,1	3,1	3,1	3,1	3,5	3,5	3,5	3,5	3,5	3,5	3,5	3,5	3,5	3,5	3,5	3,5	3,5	3,5	3,5	3,5	3,5	3,5	3,5	3,5	3,5	2,6	2,6	2,6	2,6	2,6	2,6	2,6



bar	Liters / mn								
	AMT ..007	AMT ..008	AMT ..010	AMT ..012	AMT ..015	AMT ..018	AMT ..020	AMT ..023	AMT ..040
2	0,42	0,54	0,91	1,14	1,88	2,54	3,09	3,98	12,28
3	0,51	0,66	1,10	1,39	2,27	3,12	3,77	4,91	15,06
4	0,59	0,75	1,25	1,60	2,60	3,60	4,35	5,70	17,40
5	0,65	0,83	1,38	1,78	2,89	4,03	4,86	6,40	19,46
10	0,91	1,15	1,89	2,51	3,99	5,70	6,85	9,17	27,56
15	1,10	1,39	2,27	3,06	4,82	6,98	8,37	11,31	33,78
20	1,27	1,59	2,59	3,52	5,51	8,06	9,65	13,13	39,03
30	1,54	1,92	3,11	4,30	6,65	9,88	11,80	16,20	47,84
50	1,96	2,43	3,91	5,52	8,44	12,76	15,20	21,12	61,83



bar	Liters / mn								
	AMT ..007	AMT ..008	AMT ..010	AMT ..012	AMT ..015	AMT ..018	AMT ..020	AMT ..023	AMT ..040
2	0,41	0,43	0,65	0,94	1,42	1,98	2,46	3,18	10,13
3	0,50	0,53	0,79	1,15	1,73	2,42	3,02	3,90	12,41
4	0,57	0,61	0,91	1,32	2,00	2,80	3,50	4,50	14,33
5	0,64	0,68	1,01	1,47	2,23	3,13	3,92	5,03	16,03
10	0,89	0,95	1,42	2,07	3,15	4,43	5,58	7,12	22,68
15	1,08	1,16	1,74	2,53	3,85	5,42	6,87	8,72	27,79
20	1,24	1,34	2,00	2,92	4,44	6,26	7,95	10,07	32,09
30	1,50	1,63	2,44	3,56	5,43	7,67	9,78	12,33	39,32
50	1,92	2,09	3,13	4,58	6,99	9,90	12,68	15,92	50,79

NEW Nozzle

NAF

Hollow cone or full cone misting nozzle

MAIN CHARACTERISTICS

› High performance ceramic and plastic body POM - Polyacetal (Excellent precision and high wear resistance)
› Recommended for several applications such as humidification, fine particles reduction, odour control
› Adaptable on PVC connectors

SPECIFIC CHARACTERISTICS

› The nozzles have a hollow cone jet or a full cone jet
› NAF misting nozzles are suitable for pressures from 5 to 30 bars included
› Easy assembly and cleaning
› Removable 50 µm filter
› Sealing materials: nitrile

APPLICATIONS

Particularly recommended to refresh people and animals. Tender fruits and vegetables cleaning

5-30 bar

full cone

HOLLOW CONE CHART

Pressure (bar)	BLACK NAF		WHITE NAF	
	Flow rate (ml/min)	Angle	Flow rate	Angle
5	-	-	50	70°
7	-	-	55	75°
10	-	-	65	80°
15	-	-	75	80°
20	50	80°	85	80°
25	60	80°	95	80°
30	70	80°	103	80°

FULL CONE CHART

Pressure (bar)	BLUE NAF		GREY NAF		GREEN NAF		ORANGE NAF	
	Flow rate	Angle	Flow rate	Angle	Flow rate	Angle	Flow rate	Angle
5	-	-	-	-	-	-	130	80°
7	-	-	63	60°	100	80°	170	90°
10	50	50°	70	80°	130	89°	220	90°
15	60	70°	95	88°	165	89°	295	93°
20	83	75°	118	92°	195	92°	345	93°
25	93	75°	133	96°	220	96°	398	93°
30	100	77°	148	96°	243	96°	435	93°

NEW Nozzle

Full cone 1/8 misting nozzle TAM

SPECIFIC CHARACTERISTICS

› TAM misting nozzles are suitable for pressures from 5 to 30 bars included
› Easy assembly and cleaning
› Removable filter made of sintered resin (50 µm).
› Sealing materials: nitrile

MAIN CHARACTERISTICS

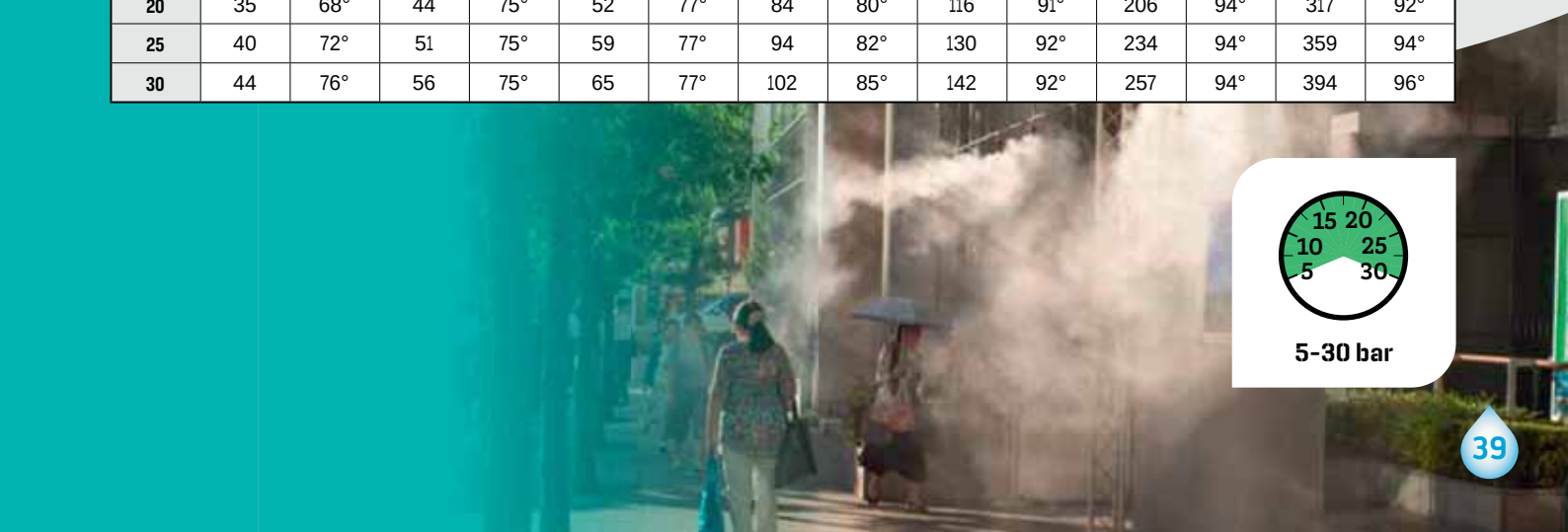
› High-performance ceramics and plastic POM body - Polyacetal (Excellent precision and high wear resistance)
› Recommended for several applications such as humidification, fine particles reduction, odour control.
› 1/8 NPT thread

SECTIONAL VIEW

APPLICATIONS

Particularly recommended to refresh people and animals. Tender fruits and vegetables cleaning

	YELLOW TAM		BLACK TAM		BLUE TAM		RED TAM		GREY TAM		GREEN TAM		ORANGE TAM	
Pression (bar)	Flow rate (ml/min)	Angle	Flow rate	Angle	Flow rate	Angle	Flow rate	Angle	Flow rate	Angle	Flow rate	Angle	Flow rate	Angle
5	-	-	-	-	22	35°	41	55°	-	-	78	55°	137	65°
8	20	30°	25	56°	31	57°	53	67°	68	77°	118	80°	185	80°
10	23	47°	29	62°	35	65°	60	75°	78	80°	137	90°	214	83°
12	26	55°	33	64°	39	67°	66	75°	87	85°	153	94°	238	90°
15	29	60°	37	70°	44	70°	74	78°	99	89°	176	94°	269	91°
18	33	65°	42	75°	49	73°	80	80°	109	91°	194	94°	298	92°
20	35	68°	44	75°	52	77°	84	80°	116	91°	206	94°	317	92°
25	40	72°	51	75°	59	77°	94	82°	130	92°	234	94°	359	94°
30	44	76°	56	75°	65	77°	102	85°	142	92°	257	94°	394	96°



ALBUZ

catalog 2022

NOZZLE BLISTER PACKAGING

This packaging has been especially designed for self-service. Nozzles are packed in blisters of 8 pieces except for AVI-OC models and OCI (2 nozzles per blister). On the back of the cardboard label you will find the flow rate chart.

NOZZLE CLEANING BRUSH

THE MAINTENANCE OF YOUR NOZZLES IS ESSENTIAL. WHILE PROTECTING YOUR NOZZLES, YOU SAVE MONEY AND TIME.

WINTERIZING

Do not forget to clean your nozzles before winter.

UNCLOGGING

Remove the nozzles from the nozzle holder and brush them with our ALBUZ® nozzle cleaning brush (important: do not use metal materials such as a knife or wire, it would damage the nozzle).

CLEANING

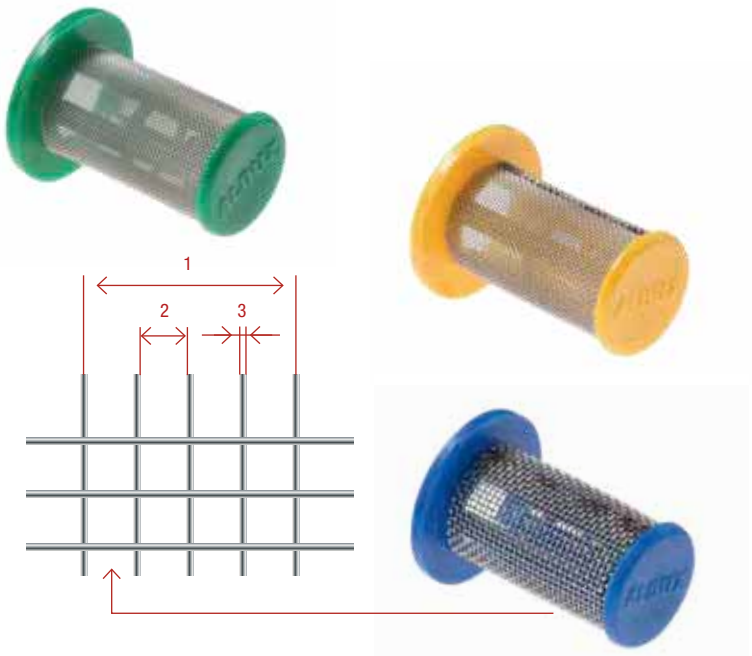
Blow compressed air into the nozzle (do not blow with your mouth). Rinse the nozzles using a descaling agent (e.g. Antikal).

After cleaning, ALBUZ® nozzles will be in perfect condition for the next use.

FILTERS

FILTERS PROTECT

A clogged or partially clogged nozzle will be less efficient in spraying your treatments, because it changes the nozzle flowrate and spray pattern. Please ensure that you select the correct filter to use with the specific nozzles you are using, as per our recommendations.



FILTER CHOICE

There are various models of filters. You will find information in the chart to help you to choose the correct filter.

Presentation of filter models according to ISO 19 732 standard		
Colour	Number of wires per inch* (1)	spacing between wires (2) X Diameter of wire (mesh) (3)
	25/30	0,45 x 0,32 - 0,63 x 0,16
	50/60	0,28 x 0,22 - 0,35 x 0,18
	80	0,18 x 0,14 - 0,23 x 0,10
	100	0,14 x 0,11 - 0,18 x 0,08
	200	0,07 x 0,06 - 0,08 x 0,05

Find our range on www.albuz-spray.com

WATER SENSITIVE PAPER

The special coating of hydro sensitive papers will enable you to evaluate spray coverage and the density of droplets. You can then check the spraying quality of your nozzles.

Water sensitive paper		
Reference	Paper size	Quantity per pack
039 547	76 mm x 26 mm	50 cards
039 548	76 mm x 52 mm	50 cards

TAM MISTING ACCESSORIES

Female nozzle holders 1/8" for the ends of line utilization with nylon tube 3/8"
Lightweight and easy to assemble

Male connector / male 1/8" NPT

The butterfly nut 3/8" is an essential accessory to fix and close the tube during the assembly of nozzle expansions

Butterfly caps 3/8"
are used for the end of line closure

Cap 1/8" NPT
Enables a fast and safe installation without using welds nor seals

Medium pressure nylon tube 3/8"
(up to 30 bars)
Flexible and resistant to bending

T lead connector
Has a female thread 1/"8 and pipe connectors 3/8".
Lightweight and easy to assemble

T lead connector
Connectors for pipes 3/8"
Lightweight and easy to assemble

ALBUZ

SPRAYER CALIBRATION

FIELD CROP SPRAYERS

Driving speed (km / h) =

$$\frac{\textbf{Distance (m) x 3,6}}{\textbf{Time (s)}}$$

Required pressure (bar) =

$$\left(\frac{\textbf{Required output } (l/min)}{\textbf{Known output } (l/min)}\right)^2 \textbf{ x Known pressure } (bar)$$

Application volume (l/ha) =

$$\frac{\textbf{600 x l / min (per nozzle)}}{\textbf{Nozzle spacing } (m) \text{ x km / h}}$$

Nozzle output =

$$\frac{\text{Nozzle spacing } (m) \textbf{ x l / ha x km / h}}{\textbf{600}}$$

AIR ASSISTED SPRAYERS

Determination the size of the nozzles

To determine the total application volume of the nozzles, you first have to establish the speed of the sprayers and the volume per hectare from the chemical manufacturers recommendations on the product label

$$\textbf{TOTAL L/MIN} = \frac{\textbf{Row width (m) x l / ha x km / h}}{\textbf{600}}$$

This amount has to be divided between all the nozzles in function on the mistblower.

CONVERSION FACTORS

	Pressure	Flow rate	Volume	Length	Speed
Unit	1 bar	1 l/min	1 l/hac	1 cm	1 km/h
US metrics	14,51 PSI	0,26 GPM	0,11 GPA	0,39 inch	0,62 mille/h

NOZZLE CROSS-REFERENCE CHART

ALBUZ	agrotop	HYPRO	LECHLER	TeeJet
AXI 80°/110°	SPRAY MAX	VP	LU-C	XR
ADI 110°		LOWDRIFT	AD-C	DG
CVI 110°	AIRMIX	GUARDIAN	IDKC	AIXR
CVI-OC 80°	AIRMIX OC		IDKS	
CVI-TWIN 110°				
AVI 110°	TURBODROP	DB	ID3C	AI
AVI-UC 110°	TDXLD	ULD Max	ID3	TTI
AVI-OC 80°			IS	AIUB
AVI-TWIN 110°	AIRMIX DS	TWC + DB (x2)		TIJ
ATR 80°		HCX	TR	TRX
ATR 60°				
TVI 80°	AIRMIX HC		ITR	AITXB
ATI 80°				TXB
ATI 60°				
ATF 80°				
ESI EXA		FCHESI	FL	SJ7 / SJ3
MSI	DT	DT		TF
MVI			FT	TK

Plastics - Ceramics - Stainless steel

LIQUID FERTILIZERS

Flow rate charts in this catalogue are based on clean water. In order to determine the volume of liquid fertilizer per hectare, use the appropriate conversion factor so as to adapt it to our flow rate charts. Multiply the required flow rate of liquid (in l per min) by the conversion factor of water. The new flow rate obtained in l per min will be found in the flow rate chart; from that value one can find the appropriate nozzle. For example: 150 l/ha of a nitrogen solution at 1.28 kg/l x 1.13 = 170 l/ha of water.

Density - kg/l	Conversion factors
1,00 - WATER	1,00
1,08	1,04
1,20	1,10
1,28 - NITROGEN	1,13

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