

Nozzles & Accessories



Silvan

GENUINE ACCESSORIES

TeeJet
TECHNOLOGIES

LEHLER

Hypro

ARAG

GEOline
AGRICULTURAL SPRAY PRODUCTS

Silvan

Nozzle selection and maintenance are two of the most important aspects of accurate and efficient spray application. Selecta offers the largest range of nozzles from leading brands to suit your needs.

NOZZLE DROPLET SIZE

When selecting a suitable nozzle the droplet size is critical to ensure chemical is applied to target instead of being misapplied as drift. Finer droplet sizes ensure improved coverage however they are also more prone to drift and conversely larger droplets are less prone to drift.

Droplet size follow two trends:

- As pressure increases droplet sizes decreases
- Larger size nozzles provide larger droplets and increased flow

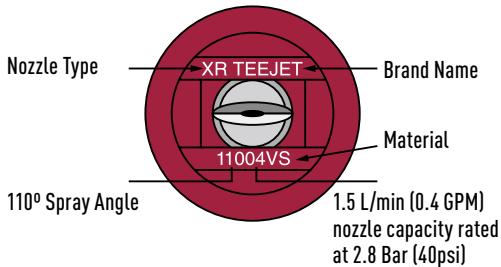
Category	Symbol	Color Code
Extremely Fine	XF	
Very Fine	VF	
Fine	F	
Medium	M	
Coarse	C	
Very Coarse	VC	
Extremely Coarse	XC	
Ultra Coarse	UC	

Droplet size classifications are based on BCPC specifications and in accordance with ASABE Standard S572.1 at the date of printing.

Classifications subject to change.

HOW TO READ & IDENTIFY A NOZZLE

Each nozzle has a code embossed on its surface and side allowing the following information to be identified.



NOZZLE MATERIAL

A variety of materials are available which differ by resistance to wear summarised below.

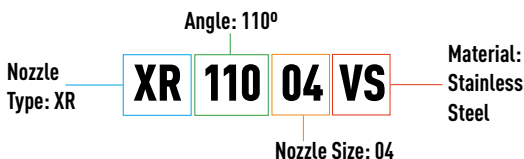
Hardest: VK (Ceramic), VS (Stainless Steel)

Moderate: VP (Polymer)

Soft: VB (Brass)

NOZZLE CODE EXPLANATION

Example of XR Nozzle 110° spray angle, 04 size made Stainless steel (VS).



XR 80 Degrees Extended Range				
	BAR			
	1.5	2	3	4
XR8003	M	F	F	F
XR8004	M	M	F	F
XR8005	M	M	M	F
XR8006	M	M	M	F
XR8008	C	C	M	M

XR 110 Degrees Extended Range				
	BAR			
	1.5	2	3	4
XR110015	F	F	F	F
XR11002	F	F	F	F
XR11003	M	F	F	F
XR1004	M	M	F	F
XR11005	M	M	M	F
XR11006	M	M	M	F
XR11008	C	C	M	M

SPRAYER CALIBRATION

STEP NUMBER 1

Check Your Tractor/Sprayer Speed!

The tractor travel speed is the most important variable in sprayer performance. A 10% change in tractor speed gives a 10% change in application rate. This can lead to over or under application of chemicals. Determine the speed by measuring 100 metres then time in seconds how long it takes to cover the 100 metres. If spraying in hilly terrain time distance both up hill and down hill and average the results.

THE FORMULA FOR SPEED IS:

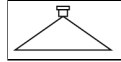
$$\text{km/h} = \frac{360}{\text{Time in seconds for 100 metres}}$$

STEP NUMBER 2

A =	B+C	The Inputs:
	D	

Before spraying, record the following:	EXAMPLE
Nozzle type on your sprayer	TT11002 Flat Fan
(All nozzles must be identical).....	Spray Tip
Recommended application volume.....	100 l/ha
(From manufacturer's label)	
Measured sprayer speed.....	10 km/h
Nozzle spacing	50 cm

STEP NUMBER 3



Calculating Required Nozzle Output

Determine l/min nozzle output from formula.

$$\text{FORMULA: } \left| \begin{array}{l} \text{l/min} = \frac{\text{l/ha} \times \text{km/h} \times \text{W}}{60,000} \end{array} \right.$$

$$\text{EXAMPLE: } \left| \begin{array}{l} \text{l/min} = \frac{\text{l/min} = 100 \times 10 \times 50}{60,000} \end{array} \right.$$

ANSWER: 0.83 l/min

STEP NUMBER 4



Setting the Correct Pressure

Turn on your sprayer and check for leaks or blockage. Inspect and clean, if necessary, all tips and strainers with TeeJet brush. Replace one tip and strainer with an identical new tip and strainer on sprayer boom.

Example: (Using above inputs) refer to application rate table on page 82 for flat spray tip. The table shows that this nozzle delivers 0.83 l/min at 3 bar.

Turn on your sprayer and adjust pressure. **Collect and measure the volume of the spray from the new tip for one minute in the collection jar.** Fine tune the pressure until you collect 0.83 L/min.

You have now adjusted your sprayer to the proper pressure. It will properly deliver the application rate specified by the chemical manufacturer at your measured sprayer speed.

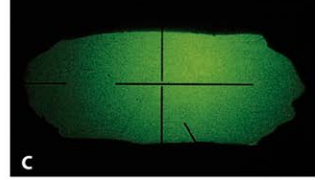
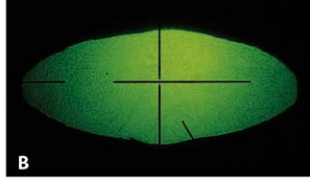
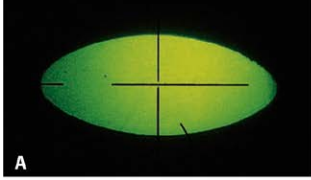
STEP NUMBER 5



Checking Your System

Problem Diagnosis: Now, check the flow rate of a few tips on each boom section. If the flow rate of any tip is 10 percent greater or less than that of the newly installed spray tip, recheck the output of that tip. If only one tip is faulty, replace with new tip and strainer and your system is ready for spraying. However, if a second tip is defective, **replace all tips on the entire boom.** This may sound unrealistic, but two worn tips on a boom are ample indication of tip wear problems. Replacing only a couple of worn tips invites potentially serious application problems.





Tips Don't Last Forever!

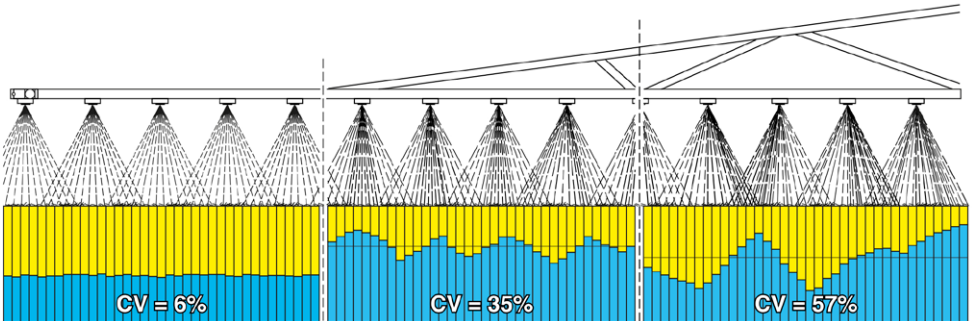
There is sufficient evidence that spray tips may be the most neglected component in today's farming. Even in countries with obligatory sprayer testing, spray tips are the most significant failure. On the other hand, they are among the most critical of items in proper application of valuable agricultural chemicals.

An Inside Look at Nozzle Orifice Wear and Damage

While wear may not be detected when visually inspecting a nozzle, it can be seen when viewed through an optical comparator. The edges of the worn nozzle (B) appear more rounded than the edges of the new nozzle (A). Damage to nozzle (C) was caused by improper cleaning. The spraying results from these tips can be seen in the illustrations below.

Determining Tip Wear

The best way to determine if a spray tip is excessively worn is to compare the flow rate from the used tip to the flow rate of a new tip of the same size and type. Charts in this catalogue indicate the flow rates for new nozzles. Check the flow of each tip by using an accurate graduated collection container, a timing device and an accurate pressure gauge mounted at the nozzle tip. Compare the flow rate of the old tip to that of the new one. Spray tips are considered excessively worn and should be replaced when their flow exceeds the flow of a new tip by 10%.



CV = 6%

NEW SPRAY TIPS

Produce a uniform distribution when properly overlapped.

CV = 35%

WORN SPRAY TIPS

Have a higher output with more spray concentrated under each tip.

CV = 57%

DAMAGED SPRAY TIPS

Have a very erratic output – overlapping and underlapping.



SPRAY TIP CARE IS THE FIRST STEP TO SUCCESSFUL APPLICATION

The successful performance of a crop chemical is highly dependent on its proper application as recommended by the chemical manufacturer. Proper selection and operation of spray nozzles are very important steps in accurate chemical application.

The volume of spray passing through each nozzle plus the droplet size and spray distribution on the target can influence pest control. Critical in controlling these three factors is the spray nozzle orifice. Careful craftsmanship goes into the precision manufacturing of each nozzle orifice.

European standards, for example the JKI (Julius Kühn Institute), require very small flow tolerances of new nozzles (+/-5%) of nominal flow. Many TeeJet nozzle types and sizes are already JKI-approved, which confirms the high quality standard designed into TeeJet nozzles.

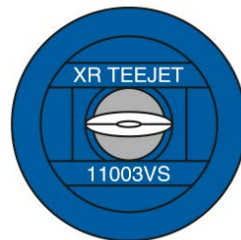
To maintain the quality in practical spraying as long as possible, the operator's job is the proper maintenance of those spray tips. The illustration below compares the spraying results obtained from well maintained vs. poorly-maintained spray tips.

Poor spray distribution can be prevented. Selection of longer wearing tip materials or frequent replacement of tips from softer materials can eliminate misapplication due to worn spray tips. Careful cleaning of a clogged spray tip can mean the difference between a clean field and one with weed streaks.

Flat spray tips have finely crafted thin edges around the orifice to control the spray. Even the slightest damage from improper cleaning can cause both an increased flow rate and poor spray distribution. Be sure to use adequate strainers in your spray system to minimize clogging.

If a tip does clog, only use a soft bristled brush or toothpick to clean it—never use a metal object.

Use extreme care with soft tip materials such as plastic. Experience has shown that even a wooden toothpick can distort the orifice.



Nozzles and Accessories

TYPICAL APPLICATION RATES FOR NOZZLES SPACED 50CM APART

MESH SIZE	CODE	LIQ PRES BAR	CAP. L/MIN	APPLICATION RATE: LITRES PER HECTARE AT KM/H													
				4 KM/H	5 KM/H	6 KM/H	7 KM/H	8 KM/H	10 KM/H	12 KM/H	16 KM/H	18 KM/H	20 KM/H	25 KM/H	30 KM/H	35 KM/H	
100 Mesh*	01	1.0	0.23	69.0	55.2	46.0	39.4	34.5	27.6	23.0	17.3	15.3	13.8	11.0	9.2	7.9	
		1.5	0.28	84.0	67.2	56.0	48.0	42.0	33.6	28.0	21.0	18.7	16.8	13.4	11.2	9.6	
		2.0	0.32	96.0	76.8	64.0	54.9	48.0	38.4	32.0	24.0	21.3	19.2	15.4	12.8	11.0	
		2.5	0.36	108	86.4	72.0	61.7	54.0	43.2	36.0	27.0	24.0	21.6	17.3	14.4	12.3	
		3.0	0.39	117	93.6	78.0	66.9	58.5	46.8	39.0	29.3	26.0	23.4	18.7	15.6	13.4	
		3.5	0.42	126	101	84.0	72.0	63.0	50.4	42.0	31.5	28.0	25.2	20.2	16.8	14.4	
		4.0	0.45	135	108	90.0	77.1	67.5	54.0	45.0	33.8	30.0	27.0	21.6	18.0	15.4	
		5.0	0.50	150	120	100	85.7	75.0	60.0	50.0	37.5	33.3	30.0	24.0	20.0	17.1	
6.0	0.55	165	132	110	94.3	82.5	66.0	55.0	41.3	36.7	33.0	26.4	22.0	18.9			
100 Mesh*	015	1.0	0.34	102	81.6	68.0	58.3	51.0	40.8	34.0	25.5	22.7	20.4	16.3	13.6	11.7	
		1.5	0.42	126	101	84.0	72.0	63.0	50.4	42.0	31.5	28.0	25.2	20.2	16.8	14.4	
		2.0	0.48	144	115	96.0	82.3	72.0	57.6	48.0	36.0	32.0	28.8	23.0	19.2	16.5	
		2.5	0.54	162	130	108	92.6	81.0	64.8	54.0	40.5	36.0	32.4	25.9	21.6	18.5	
		3.0	0.59	177	142	118	101	88.5	70.8	59.0	44.3	39.3	35.4	28.3	23.6	20.2	
		3.5	0.64	192	154	128	110	96.0	76.8	64.0	48.0	42.7	38.4	30.7	25.6	21.9	
		4.0	0.68	204	163	136	117	102	81.6	68.0	51.0	45.3	40.8	32.6	27.2	23.3	
		4.5	0.72	216	173	144	123	108	86.4	72.0	54.0	48.0	43.2	34.6	28.8	24.7	
		5.0	0.76	228	182	152	130	114	91.2	76.0	57.0	50.7	45.6	36.5	30.4	26.1	
		5.5	0.80	240	192	160	137	120	96.0	80.0	60.0	53.3	48.0	38.4	32.0	27.4	
		6.0	0.83	249	199	166	142	125	100	83.0	62.3	55.3	49.8	39.8	33.2	28.5	
		6.5	0.87	261	209	174	149	131	104	87.0	65.3	58.0	52.2	41.8	34.8	29.8	
7.0	0.90	270	216	180	154	135	108	90.0	67.5	60.0	54.0	43.2	36.0	30.9			
8.0	0.96	288	230	192	165	144	115	96.0	72.0	64.0	57.6	46.1	38.4	32.9			
50 Mesh*	02	1.0	0.46	138	110	92.0	78.9	69.0	55.2	46.0	34.5	30.7	27.6	22.1	18.4	15.8	
		1.5	0.56	168	134	112	96.0	84.0	67.2	56.0	42.0	37.3	33.6	26.9	22.4	19.2	
		2.0	0.65	195	156	130	111	97.5	78.0	65.0	48.8	43.3	39.0	31.2	26.0	22.3	
		2.5	0.72	216	173	144	123	108	86.4	72.0	54.0	48.0	43.2	34.6	28.8	24.7	
		3.0	0.79	237	190	158	135	119	94.8	79.0	59.3	52.7	47.4	37.9	31.6	27.1	
		3.5	0.85	255	204	170	146	128	102	85.0	63.8	56.7	51.0	40.8	34.0	29.1	
		4.0	0.91	273	218	182	156	137	109	91.0	68.3	60.7	54.6	43.7	36.4	31.2	
		4.5	0.97	291	233	194	166	146	116	97.0	72.8	64.7	58.2	46.6	38.8	33.3	
		5.0	1.02	306	245	204	175	153	122	102	76.5	68.0	61.2	49.0	40.8	35.0	
		5.5	1.07	321	257	214	183	161	128	107	80.3	71.3	64.2	51.4	42.8	36.7	
		6.0	1.12	336	269	224	192	168	134	112	84.0	74.7	67.2	53.8	44.8	38.4	
		6.5	1.16	348	278	232	199	174	139	116	87.0	77.3	69.6	55.7	46.4	39.8	
7.0	1.21	363	290	242	207	182	145	121	90.8	80.7	72.6	58.1	48.4	41.5			
8.0	1.29	387	310	258	221	194	155	129	96.8	86.0	77.4	61.9	51.6	44.2			
50 Mesh*	025	3.0	0.99	297	238	198	170	149	119	99.0	74.3	66.0	59.4	47.5	39.6	33.9	
		3.5	1.07	321	257	214	183	161	128	107	80.3	71.3	64.2	51.4	42.8	36.7	
		4.0	1.14	342	274	228	195	171	137	114	85.5	76.0	68.4	54.7	45.6	39.1	
		4.5	1.21	363	290	242	207	182	145	121	90.8	80.7	72.6	58.1	48.4	41.5	
		5.0	1.28	384	307	256	219	192	154	128	96.0	85.3	76.8	61.4	51.2	43.9	
		5.5	1.34	402	322	268	230	201	161	134	101	89.3	80.4	64.3	53.6	45.9	
		6.0	1.40	420	336	280	240	210	168	140	105	93.3	84.0	67.2	56.0	48.0	
		6.5	1.46	438	350	292	250	219	175	146	110	97.3	87.6	70.1	58.4	50.1	
7.0	1.51	453	362	302	259	227	181	151	113	101	90.6	72.5	60.4	51.8			
8.0	1.62	486	389	324	278	243	194	162	122	108	97.2	77.8	64.8	55.5			
50 Mesh*	03	1.0	0.68	204	163	136	117	102	81.6	68.0	51.0	45.3	40.8	32.6	27.2	23.3	
		1.5	0.83	249	199	166	142	125	100	83.0	62.3	55.3	49.8	39.8	33.2	28.5	
		2.0	0.96	288	230	192	165	144	115	96.0	72.0	64.0	57.6	46.1	38.4	32.9	
		2.5	1.08	324	259	216	185	162	130	108	81.0	72.0	64.8	51.8	43.2	37.0	
		3.0	1.18	354	283	236	202	177	142	118	88.5	78.7	70.8	56.6	47.2	40.5	
		3.5	1.27	381	305	254	218	191	152	127	95.3	84.7	76.2	61.0	50.8	43.5	
		4.0	1.36	408	326	272	233	204	163	136	102	90.7	81.6	65.3	54.4	46.6	
		4.5	1.45	435	348	290	249	218	174	145	109	96.7	87.0	69.6	58.0	49.7	
		5.0	1.52	456	365	304	261	228	182	152	114	101	91.2	73.0	60.8	52.1	
		5.5	1.60	480	384	320	274	240	192	160	120	107	96.0	76.8	64.0	54.9	
		6.0	1.67	501	401	334	286	251	200	167	125	111	100	80.2	66.8	57.3	
		6.5	1.74	522	418	348	298	261	209	174	131	116	104	83.5	69.6	59.7	
7.0	1.80	540	432	360	309	270	216	180	135	120	108	86.4	72.0	61.7			
8.0	1.93	579	463	386	331	290	232	193	145	129	116	92.6	77.2	66.2			

*Recommended nozzle filter mesh size.

Nozzles and Accessories

TYPICAL APPLICATION RATES FOR NOZZLES SPACED 50CM APART

MESH SIZE	CODE	LIQ PRES BAR	CAP. L/MIN	APPLICATION RATE: LITRES PER HECTARE AT KM/H												
				4 KM/H	5 KM/H	6 KM/H	7 KM/H	8 KM/H	10 KM/H	12 KM/H	16 KM/H	18 KM/H	20 KM/H	25 KM/H	30 KM/H	35 KM/H
50 Mesh*	04	1.0	0.91	273	218	182	156	137	109	91	68.3	60.7	54.6	43.7	36.4	31.2
		1.5	1.12	336	269	224	192	168	134	112	84.0	74.7	67.2	53.8	44.8	38.4
		2.0	1.29	387	310	258	221	194	155	129	96.8	86.0	77.4	61.9	51.6	44.2
		2.5	1.44	432	346	288	247	216	173	144	108	96.0	86.4	69.1	57.6	49.4
		3.0	1.58	474	379	316	271	237	190	158	119	105	94.8	75.8	63.2	54.2
		3.5	1.71	513	410	342	293	257	205	171	128	114	103	82.1	68.4	58.6
		4.0	1.82	546	437	364	312	273	218	182	137	121	109	87.4	72.8	62.4
		4.5	1.94	582	466	388	333	291	233	194	146	129	115	93.1	77.6	66.5
		5.0	2.04	612	490	408	350	306	245	204	153	136	122	97.9	81.6	69.9
		5.5	2.14	642	514	428	367	321	257	214	161	143	128	103	85.6	73.4
		6.0	2.23	669	535	446	382	335	268	223	167	149	134	107	89.2	76.5
6.5	2.33	699	559	466	399	350	280	233	175	155	140	112	93.2	79.9		
7.0	2.41	725	578	482	413	362	289	241	181	161	145	116	96.4	82.6		
8.0	2.58	774	619	516	442	387	310	258	194	172	155	124	103	88.5		
50 Mesh*	05	1.00	1.14	342	274	228	195	171	137	114	85.5	76.0	68.4	54.7	45.6	39.1
		1.5	1.39	417	334	278	238	209	167	139	104	92.7	83.4	66.7	55.6	47.7
		2.0	1.61	483	386	322	276	242	193	161	121	107	96.6	77.3	64.4	55.2
		2.5	1.80	540	432	360	309	270	216	180	135	120	108	86.4	72.0	61.7
		3.0	1.97	591	473	394	338	296	236	197	148	131	118	94.6	78.38	67.5
		3.5	2.13	639	511	426	365	320	256	213	160	142	128	102	85.2	73.0
		4.0	2.27	681	545	454	389	341	272	227	170	151	136	109	90.8	77.8
		4.5	2.41	723	578	482	413	362	289	241	181	161	145	116	96.4	82.6
		5.0	2.54	762	610	508	435	381	305	254	191	169	152	122	102	87.1
		5.5	2.67	801	641	534	458	401	320	267	200	178	160	128	107	91.5
		6.0	2.79	837	670	558	478	416	335	279	209	186	167	134	112	95.7
6.6	2.90	870	696	580	497	435	348	290	218	193	174	139	116	99.4		
7.0	3.01	903	722	602	516	452	361	301	226	201	181	144	120	103		
8.0	3.22	966	773	644	552	483	386	322	242	215	193	155	129	110		
50 Mesh*	06	1.0	1.37	411	329	274	235	206	164	137	103	91.3	82.2	65.8	54.8	47.0
		1.5	1.68	504	403	336	288	252	202	168	126	112	101	80.6	67.2	57.6
		2.0	1.94	582	466	388	333	291	233	194	146	129	116	93.1	77.6	66.5
		2.5	2.16	648	518	432	370	324	259	216	162	144	130	104	86.4	74.1
		3.0	2.37	711	569	474	406	356	284	237	178	158	142	114	94.8	81.3
		3.5	2.56	768	614	512	439	384	307	256	192	171	154	123	102	87.8
		4.0	2.74	822	658	548	470	411	329	274	206	183	164	132	110	93.9
50 Mesh*	08	1.0	1.82	546	437	364	312	273	218	182	137	121	109	87.4	72.8	62.4
		1.5	2.23	669	535	446	382	335	268	223	167	149	134	107	89.2	76.5
		2.0	2.58	774	619	516	442	387	310	258	194	172	155	124	103	88.5
		2.5	2.88	864	691	576	494	432	346	288	216	192	173	138	115	98.7
		3.0	3.16	948	758	632	542	474	379	316	237	211	190	152	126	108
		3.5	3.41	1023	818	682	585	512	409	341	256	227	205	164	136	117
50 Mesh*	10	1.0	2.28	684	547	456	391	342	274	228	171	152	137	109	91.2	78.2
		1.5	2.79	837	670	558	478	419	335	279	209	186	167	134	112	95.7
		2.0	3.23	969	775	646	554	485	388	323	242	215	194	155	129	111
		3.0	3.95	1185	948	790	677	593	474	395	296	263	237	190	158	135
50 Mesh*	15	1.0	4.56	1368	1094	912	782	684	547	456	342	304	274	219	182	156
		1.0	3.42	1026	821	684	586	513	410	342	257	228	205	164	137	117
		1.5	4.19	1257	1006	838	718	629	503	419	314	279	251	201	168	144
		2.0	4.83	1449	1159	966	828	725	580	483	362	322	290	232	193	166
50 Mesh*	15	3.0	5.92	1776	1421	1184	1015	888	710	592	444	395	355	284	237	203
		4.0	6.84	2052	1642	1368	1173	1026	821	684	513	456	410	328	274	235

*Recommended nozzle filter mesh size.

NOZZLE APPLICATION RATES

Pages 82 and 83 display the ISO std application rates which apply to most flat fan nozzles.

Nozzles are colour coded according to L/min output size at 2.8 Bar.

For example: All Yellow 02 nozzles at 2.8 Bar (40psi) have a flow rate of 0.2 US Gallons (0.75L/min).

Note: Each nozzle type has a different droplet size profile.

SELECTING THE RIGHT SIZE NOZZLE

Application rates can be adjusted by pressure, vehicle speed and nozzle size.

Pressure can change droplet size and increase nozzle wear. Vehicle speed is an inaccurate method of adjusting output as higher speeds are hard on equipment that can lead to critical failures.

Nozzle size is the ideal and easiest way to select a suitable nozzle as you can change the output rate without significant changes to the machinery.

TO SELECT A NOZZLE

1. You need to know your preferred safe vehicle speed.
2. Define your required droplet size & application rate eg. Medium droplet at 100L/h
3. Confirm from the application rates table below, the nozzle can apply the required 100L/ha at 3.5 Bar pressure

Turbo TeeJet® (TT)

	bar											Droplet Size	
	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0		
TT11001	C	C	M	M	M	M	F	F	F	F	F	Medium	
TT110015	VC	C	M	M	M	M	F	F	F	F	F		
TT11002	VC	C	C	M	M	M	M	F	F	F	F		
TT110025	VC	C	C	M	M	M	M	F	F	F	F		
TT11003	VC	VC	C	C	M	M	M	M	M	M	M		Fine
TT11004	XC	VC	C	C	C	M	M	M	M	M	M		
TT11005	XC	VC	VC	C	C	C	C	M	M	M	M		
TT11006	XC	VC	VC	VC	VC	C	C	C	M	M	M		
TT11008	XC	VC	VC	VC	C	C	C	C	M	M	M		

WHAT DROPLET SIZE DO I REQUIRE?

The manufacturer of your chemical may recommend suitable droplet sizes on the chemical label ranging from extremely fine to ultra coarse. Always refer to your agronomist.

Nozzles that produce small droplets are recommended for post-emergence applications, which require excellent coverage on the intended target area. Nozzles producing medium and coarse-sized droplets can be used for contact and systemic herbicides, pre emergence surface-applied herbicides, insecticides and fungicides.

Remember, as droplet size is reduced the drift potential is increased. Where possible, choose nozzles with a slightly coarser droplet size to reduce drift potential. Review the nozzle droplet size charts for the appropriate nozzles capable of the required droplet size.

UNIVERSAL APPLICATION RATE CHART FOR 50 CM TIP SPACING

TIP CAPACITY	LIQUID PRESSURE IN BAR	CAPACITY 1 NOZZLE IN L/MIN	L/HA - 50CM NOZZLE SPACING			Speed
			4 KM/H	6 KM/H	8 KM/H	10 KM/H
01	1.0	0.23	69.0	46.0	34.5	27.6
	1.5	0.28	84.0	56.0	42.0	33.6
	2.0	0.32	96.0	64.0	48.0	38.4
	3.0	0.39	117	78.0	58.5	46.8
	4.0	0.45	135	90.0	67.5	54.0
	5.0	0.50	150	100	75.0	60.0
	6.0	0.55	165	110	82.5	66.0
015	1.0	0.34	102	68.0	51.0	40.8
	1.5	0.42	126	84.0	63.0	50.4
	2.0	0.48	144	96.0	72.0	57.6
	3.0	0.59	177	118	88.5	70.8
	4.0	0.68	204	136	102	81.6
	5.0	0.76	228	152	114	91.2
	6.0	0.83	249	166	125	99.6
02	1.0	0.46	138	92.0	69.0	55.2
	1.5	0.56	168	112	84.0	67.2
	2.0	0.65	195	130	97.5	78.0
	3.0	0.79	237	158	119	94.8
	4.0	0.91	273	182	137	109
	5.0	1.02	306	204	153	122
	6.0	1.12	336	224	168	134
	7.0	1.21	363	242	182	145

NOTE: Always double check your application rates. Tabulations are based on spraying water at 70°F (21°C).

WIND METER DELTA T

Calculates Delta T, wind speed, temperature & humidity. Hand held, battery operated and easy to use.

- Wind speed range 1.1-20m/s, 0.7 - 72kms/hr
- Air temperature: -15 - 50C
- Air relative humidity 0% - 100% RH
- Temperature and humidity response time 60 seconds
- Wet bulb temperature
- Dry bulb temperature
- Battery: CR2032



118-486

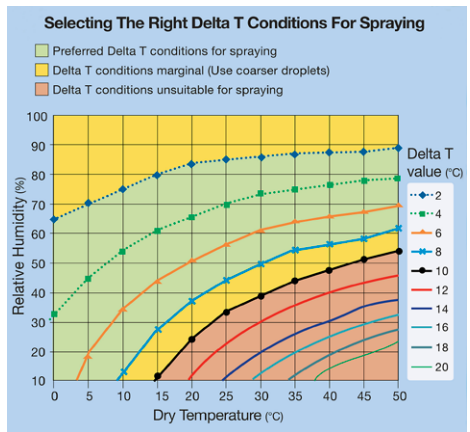
CODE	DESCRIPTION	LIST EX	LIST INC	CAT
118-486	Wind Meter Delta T	\$253.64	\$279.00	B

WHEN IS IT RIGHT TO SPRAY?

The weather has major impact on spraying conditions.

The effects of Wind on spraying can be very clear and easy to see but temperature and humidity also have critical effects that can be measured by a Delta T.

Delta T is a relative measure of Humidity vs Temperature summarised in the table (right) that indicates suitability of spray conditions. Preferably spraying should occur when Delta T is between 2 and 8; a higher Delta T has an increased chance for drift caused by evaporation when water based spraying.



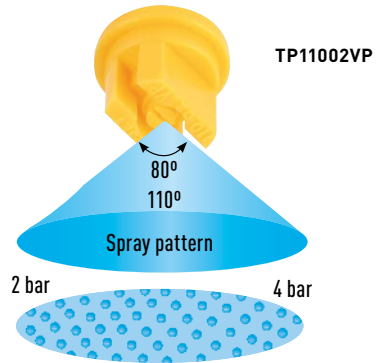
WIND SPEED AND SPRAYING

Wind speeds are critical when spraying. If conditions are too windy, chemicals may not be applied correctly to the target crop leading to poor results, increased drift and possible off target damage. The table below offers a simple method of assessing wind speeds, otherwise they can be more accurately measured using a Wind Meter.

Approx. Airspeed at Boom Height	Description	Visible Signs	Spraying
Less than 2 km/h	Calm	Smoke rises vertically	Spraying inadvisable
2-3.3 km/h	Light air	Direction shown by smoke drift	Avoid spraying
3.2-6.5 km/h	Light breeze	Leaves rustle, wind fell on face	Ideal spraying
6.5-9.6 km/h	Gentle breeze	Leaves & twigs in constant motion	Use low drift nozzles (medium droplets)
9.6-14.5 km/h	Moderate	Small branches moved raises dust or loose paper	Use air induction nozzles (coarse droplets)

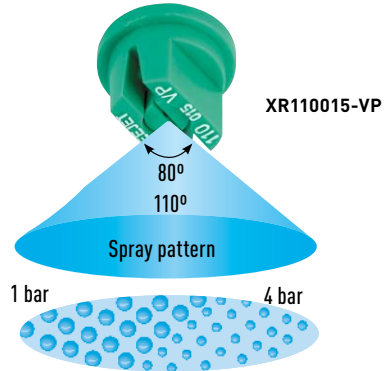
TP FLAT FAN STANDARD

- Single piece nozzle with even coverage
- Pressure Range: 2-4 Bar
- Polymer with visi flo colour coding



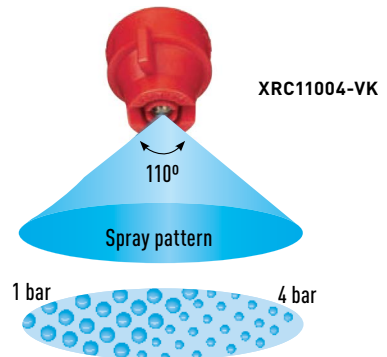
XR EXTENDED RANGE

- Single piece nozzle with even coverage
- Polymer, stainless steel and ceramic available
- Lower drift at low pressure
- Pressure Range: 1-4 Bar



XRC EXTENDED RANGE


- Same specification droplet size as XR Nozzle with added convenience of a moulded Quick TeeJet cap for easy fitment and automatic alignment
- Single piece nozzle with even coverage
- Pressure Range: 1-4 Bar
- Polymer, stainless steel and ceramic material available
- Lower drift at low pressure. Increased coverage and drift potential at higher pressure





REFER TO PAGES 104-105 FOR AUTOMATIC ALIGNMENT CAP & GASKET


Nozzles and Accessories


DROPLET SIZE INFORMATION

	TP Flat Fan 80 Degrees				
	BAR				
	2	2.5	3	3.5	4
TP80015	F	F	F	F	F
TP80002	F	F	F	F	F
TP8003	F	F	F	F	F
TP8004	M	M	M	F	F
TP8005	M	M	M	M	F
TP8006	M	M	M	M	M
TP8008	C	M	M	M	M

	TP Flat Fan 110 Degrees				
	BAR				
	2	2.5	3	3.5	4
TP110015	F	F	F	F	VF
TP110002	F	F	F	F	F
TP110003	F	F	F	F	F
TP110004	M	M	F	F	F
TP110005	M	M	M	F	F
TP110006	M	M	M	M	F
TP110008	C	M	M	M	M

	XR 80 Degrees Extended Range			
	BAR			
	1.5	2	3	4
XR8003	M	F	F	F
XR8004	M	M	F	F
XR8005	M	M	M	F
XR8006	M	M	M	F
XR8008	C	C	M	M

	XR 110 Degrees Extended Range			
	BAR			
	1.5	2	3	4
XR110015	F	F	F	F
XR11002	F	F	F	F
XR11003	M	F	F	F
XR11004	M	M	F	F
XR11005	M	M	M	F
XR11006	M	M	M	F
XR11008	C	C	M	M

	XRC 110 Degrees Extended Range						
	BAR						
	1	1.5	2	2.5	3	3.5	4
XRC11002	M	F	F	F	F	F	F
XRC110025	M	F	F	F	F	F	F
XRC11003	M	M	F	F	F	F	F
XRC11004	M	M	M	M	F	F	F
XRC11005	M	M	M	M	M	F	F
XRC11006	C	M	M	M	M	M	F
XRC11008	C	C	C	M	M	M	M

Droplet Size Clarification

VF	Very Fine	F	Fine	M	Medium	C	Coarse	VC	Very Coarse	XC	Extremely Course
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CODE	ANGLE	DESCRIPTION	SIZES AVAILABLE	LIST EX	LIST INC	CAT
TP110***-VP	110°	TP - Flat Fan - Poly	015, 02, 03, 04, 05, 06, 08	\$3.18	\$3.50	B
TP80***-VP	80°	TP - Flat Fan - Poly	015, 02, 03, 04, 05, 06, 08	\$3.18	\$3.50	B
XR110***-VP	110°	XR - Flat Fan - Poly	015, 02, 03, 04, 05, 06, 08	\$7.27	\$8.00	B
XR110***-VK	110°	XR - Flat Fan - Ceramic	02, 025, 03, 04, 05, 06, 08	\$11.82	\$13.00	B
XR80***-VK	80°	XR - Flat Fan - Ceramic	03, 04, 05, 06, 08	\$11.82	\$13.00	B
XRC110***-VK	110°	XRC - Flat Fan - Ceramic with Moulded Cap	025, 03, 04, 05, 06, 08	\$13.64	\$15.00	B

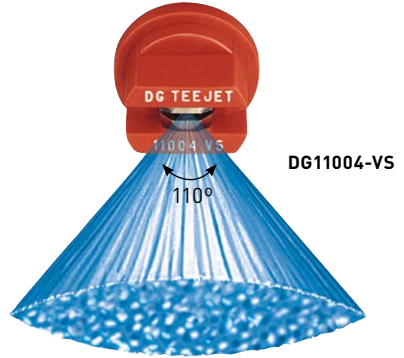
10 PACK NOZZLES:

PKT-TP110***-VP	110°	VisiFlo - Flat Fan - Poly 10 Pk	015, 02, 03, 04, 05, 06, 08	\$34.55	\$38.00	B
PKT-XR110***-VP	110°	XR - Flat Fan - Poly 10 Pk	015, 02, 03, 04, 05, 06, 08	\$81.82	\$90.00	B

*** DENOTES SIZE REQUIRED. TO ORDER ADD THE SIZE IN PLACE OF ***. EG TP11004VP

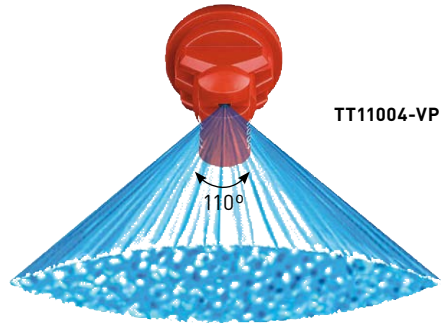
DRIFT GUARD SPRAY TIPS

- Pre-orifice design produces larger droplets and reduces the small drift prone droplets, minimising off-target spray contamination
- Tapered edge flat spray pattern
- The colour-coded pre-orifice is removable for any necessary cleaning operations
- Poly & stainless steel material available
- Sizes available 015 to 05
- Pressure Range: 2-4 Bar



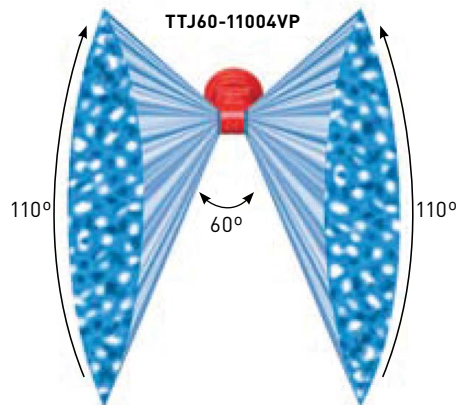
TURBO TEEJET FLAT SPRAY TIPS

- Tapered edge wide angle pattern for uniform coverage in broadcast spraying
- Large, rounded internal passage to minimise clogging
- Larger droplets for less drift (1-6 Bar)
- Poly material



TURBO TWINJET SPRAY TIPS

- Dual outlet design produces two 110° flat fan spray patterns using the patented technology from the Turbo TeeJet® nozzle. The angle between each spray pattern is 60° forward and back
- Excellent canopy coverage and penetration while delivering excellent drift resistance
- Spraying pressure (1.5-6 Bar), ideal for use with automatic sprayrate controllers
- Best suited to applications where superior leaf coverage and canopy penetration is important
- Poly material
- Sizes available 02 to 06





REFER TO PAGES 104-105 FOR AUTOMATIC ALIGNMENT CAP & GASKET

Nozzles and Accessories



DROPLET SIZE INFORMATION

	DG TeeJet				
	BAR				
	2	2.5	3	3.5	4
DG110015	M	F	F	F	F
DG11002	M	M	M	M	M
DG11003	C	M	M	M	M
DG11004	C	C	M	M	M
DG11005	C	C	C	M	M

	Turbo TeeJet										
	BAR										
	1	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6
TT11001	C	C	M	M	M	M	F	F	F	F	F
TT110015	VC	C	M	M	M	M	F	F	F	F	F
TT11002	VC	C	C	M	M	M	M	M	F	F	F
TT110025	VC	C	C	M	M	M	M	F	F	F	F
TT11003	VC	C	C	C	C	M	M	M	M	M	M
TT11004	XC	VC	C	C	C	M	M	M	M	M	M
TT11005	XC	VC	VC	C	C	C	C	M	M	M	M
TT11006	XC	VC	VC	VC	VC	C	C	C	C	M	M
TT11008	XC	VC	VC	VC	C	C	C	C	M	M	M

	Turbo Twinjet (TTJ60)									
	BAR									
	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6
TTJ60-11002	C	C	C	C	M	M	M	M	M	M
TTJ60-110025	VC	C	C	C	C	C	C	M	M	M
TTJ60-11003	VC	C	C	C	C	C	C	C	M	M
TTJ60-11004	VC	C	C	C	C	C	C	C	C	M
TTJ60-11005	VC	C	C	C	C	C	C	C	C	C
TTJ60-11006	XC	VC	C	C	C	C	C	C	C	C

Droplet Size Clarification

F	Fine	M	Medium	C	Coarse	VC	Very Coarse	XC	Extremely Coarse
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CODE	ANGLE	DESCRIPTION	SIZES AVAILABLE	LIST EX	LIST INC	CAT
DG110***-VP	110°	Polymer - Drift Guard Even Flat Fan	015, 02, 03, 04, 05	\$14.55	\$16.00	B
DG110***-VS	110°	Stainless Steel - Drift Guard Even Flat Fan	015, 02, 03, 04, 05	\$27.27	\$30.00	B
TT110***-VP	110°	Poly - Turbo Wide Angle Flat Fan	01, 015, 02, 025, 03, 04, 05, 06, 08	\$13.64	\$15.00	B
TTJ60-110***VP		Poly - Turbo Twinjet Wide Angle Flat Fan	02, 025, 03, 04, 05, 06	\$18.18	\$20.00	B

*** DENOTES SIZE REQUIRED. TO ORDER ADD THE SIZE IN PLACE OF ***

AIXR AIR INDUCTION NOZZLES

- Pressure range 1-6 Bar
- Made of a two-piece polymer construction. Excellent chemical resistance, including acids, as well as exceptional wear life
- A lower pressure air induced nozzle offers better drift management suitable for the broadacre market
- Compact size to prevent tip damage and removable pre-orifice
- Depending on the chemical, produces large air-filled drops through a Venturi air aspirator



AIXR11002-VP



CFA AIR INDUCTION NOZZLES

- Pressure range 1.5 to 8 bar
- Made of Delrin material to assist with exceptional wear life
- Compact size to prevent tip damage and removable pre orifice for cleaning
- Produces large air filled droplets to assist with drift reduction
- Made in Italy and supplied in packs of 12, ideal for 6m booms



CFA11002



IDK AIR INDUCTION NOZZLES

- Air induction flat-spray tip
- Pressure Range:
 - Spray angle 120° for poly nozzle
 - IDK-01 to 03, (1.5 - 6 Bar)
 - IDK-04 to 06, (1 - 6 Bar)
- Hard-wearing and non-clogging thanks to large lateral air-aspirating channels



IDK12004P





REFER TO PAGES 104-105 FOR AUTOMATIC ALIGNMENT CAP & GASKET


Nozzles and Accessories



DROPLET SIZE INFORMATION

	AIXR Air Induction Nozzles					
	BAR					
	1.5	2	3	4	5	6
AIXR110015	VC	C	C	M	M	M
AIXR11002	VC	VC	C	M	M	M
AIXR110025	XC	VC	VC	C	C	M
AIXR11003	XC	VC	VC	C	C	M
AIXR11004	XC	XC	VC	VC	C	C
AIXR11005	XC	XC	VC	VC	C	C
AIXR11006	XC	XC	VC	VC	C	C

	CFA Air Induction Nozzles				
	BAR				
	1.5	3	5	7	8
CFA110015	VC	C	C	C	M
CFA11002	XC	C	C	C	C
CFA110025	XC	VC	C	C	C
CFA11003	XC	VC	VC	C	C
CFA11004	XC	XC	VC	C	C
CFA11005	XC	XC	VC	VC	C
CFA11006	XC	XC	VC	VC	C

	IDK Lechler						
	BAR						
	1.5	2	2.5	3	4	5	6
IDK12001	C	C	C	M	M	M	F
IDK120015	C	C	C	C	M	M	F
IDK12002	VC	C	C	C	M	M	M
IDK120025	VC	VC	C	C	C	M	M
IDK12003	VC	VC	VC	C	C	M	M
IDK12004	VC	VC	VC	VC	C	C	M
IDK12005	VC	VC	VC	VC	C	C	M
IDK12006	XC	VC	VC	VC	VC	C	C

Droplet Size Clarification											
F	Fine	M	Medium	C	Coarse	VC	Very Coarse	XC	Extremely Course	UC	Ultra Course

CODE	ANG	DESCRIPTION	SIZES AVAILABLE	LIST EX	LIST INC	CAT
AIXR110***-VP	110°	Poly - Air Induction Spray Tip	015, 02, 025, 03, 04, 05, 06	\$15.91	\$17.50	B
CFA110***	110°	Delrin - Air Induction nozzles	015,02,025,03,04,05,06	\$9.09	\$10.00	B
IDK120***P	120°	Poly - Air Induction Spray Tip	01, 015, 02, 025, 03, 04, 05, 06	\$15.00	\$16.50	B

10 PACK NOZZLES:

PKT-AIXR110***-VP	110°	10 Pk Poly Air Induction Spray tip	015,02,03,04	\$172.73	\$190.00	B
PKT-CFA110**	110°	Delrin - Air Induction Nozzles (12pkt)	015, 02, 025, 03, 04, 05, 06	\$104.55	\$115.00	B

*** DENOTES SIZE REQUIRED. TO ORDER ADD THE SIZE IN PLACE OF ***

2, 4-D COMPLIANT NOZZLE TURBO TEEJET INDUCTION (TTI)

Turbo TeeJet Induction (TTI)

- Produces extremely coarse (XC) and ultra coarse (UC) droplets across a very wide pressure range (1-7 Bar)
- Offers the lowest percentage of driftable droplets available (<1%)*
- Fully compliant with the new 2,4-D label requirements, including the advisory statements for summer spraying between Oct 3rd and April 15th
- All polymer construction for excellent chemical and wear resistance
- Compact size to prevent tip damage
- Removable pre-orifice
- Ideal for use with spray rate controllers



TTI11002VP

AI AIR INDUCTION NOZZLES

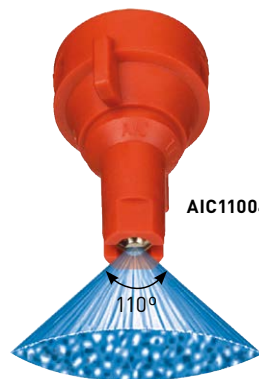
- Stainless steel insert produces tapered edge flat spray 110° pattern for uniform coverage in broadcast spraying
- Polymer insert holder and pre-orifice with VisiFlo colour-coding
- Larger droplets for less drift
- Depending on the chemical, produces large air-filled drops through the use of a venturi air aspirator
- Pressure ranges from 2 – 8 Bar
- Sizes available 015-08



AI11004-VS

AIC AIR INDUCTION NOZZLES


- Similar droplet size as AI nozzles with added convenience of a moulded nozzle cap
- Available in stainless steel poly and ceramic inserts
- Polymer insert holder and pre-orifice with VisiFlo colour-coding
- Sizes available 015-15 stainless steel, 025-05 ceramic, 02-10 polymer





AIC11004-VS

REFER TO PAGES 104-105 FOR AUTOMATIC ALIGNMENT CAP & GASKET

DROPLET SIZE INFORMATION

	Turbo TeeJet Induction (TTI)						
	BAR						
	1.5	2	3	4	5	6	7
TTI110015	UC	UC	UC	XC	XC	VC	VC
TTI11002	UC	UC	UC	XC	XC	VC	VC
TTI110025	UC	UC	UC	UC	XC	VC	VC
TTI11003	UC	UC	UC	UC	XC	XC	VC
TTI11004	UC	UC	UC	UC	XC	VC	VC
TTI11005	UC	UC	UC	XC	XC	VC	C
TTI11006	UC	UC	UC	XC	VC	C	C

	AI Air Induction Nozzles											
	BAR											
	2	2.5	3	3.5	4	4.5	5	5.5	6	6.5	7	8
AI110015	UC	XC	XC	XC	XC	VC	VC	VC	VC	C	C	C
AI11002	UC	XC	XC	XC	XC	VC	VC	VC	VC	C	C	C
AI110025	UC	UC	XC	XC	XC	XC	VC	VC	VC	VC	C	C
AI11003	UC	UC	XC	XC	XC	XC	VC	VC	VC	VC	C	C
AI11004	UC	UC	XC	XC	XC	XC	VC	VC	VC	VC	C	C
AI11005	UC	UC	XC	XC	XC	XC	VC	VC	VC	VC	C	C
AI11006	UC	UC	XC	XC	XC	XC	XC	VC	VC	VC	VC	C
AI11008	UC	UC	UC	XC	XC	XC	XC	VC	VC	VC	VC	C

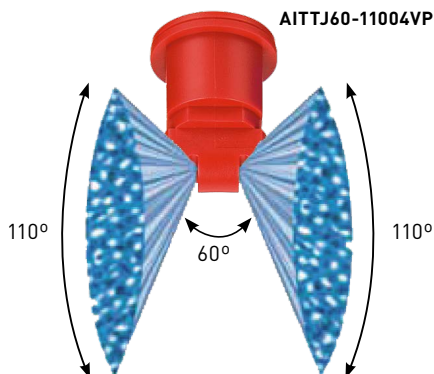
	AIC Air Induction Nozzles										
	BAR										
	2	2.5	3	3.5	4	4.5	5	5.5	6	6.5	7
AIC110015	UC	XC	XC	XC	XC	VC	VC	VC	VC	C	C
AIC11002	UC	XC	XC	XC	XC	VC	VC	VC	VC	C	C
AIC110025	UC	UC	XC	XC	XC	XC	VC	VC	VC	VC	C
AIC11003	UC	UC	XC	XC	XC	XC	VC	VC	VC	VC	C
AIC11004	UC	UC	XC	XC	XC	XC	VC	VC	VC	VC	C
AIC11005	UC	UC	XC	XC	XC	XC	VC	VC	VC	VC	C
AIC11006	UC	UC	XC	XC	XC	XC	XC	VC	VC	VC	VC
AIC11008	UC	UC	UC	XC	XC	XC	XC	VC	VC	VC	VC
AIC11010	UC	UC	UC	XC	XC	XC	XC	VC	VC	VC	VC
AIC11015	UC	UC	UC	XC	XC	XC	XC	VC	VC	VC	VC

CODE	ANG	DESCRIPTION	SIZES AVAILABLE	LIST EX	LIST INC	CAT
TTI110***VP	110°	Poly - Turbo Induction Spray Tip	015, 02, 025, 03, 04, 05, 06	\$24.55	\$27.00	B
AI110**VS	110°	Air Induction Spray Tip - Stainless Steel	015, 02, 025, 03, 04, 05, 06, 08	\$35.45	\$39.00	B
AIC110***VS	110°	Air Induction Spray Tip With Cap & Gasket - S/Steel	015, 02, 025, 04, 06, 08, 10, 15	\$35.45	\$39.00	B
AIC110***VK	110°	Air Induction Spray Tip With Cap & Gasket - Ceramic	025, 03, 04, 05, 06, 08, 10	\$30.91	\$34.00	B
AIC110***VP	110°	Air Induction Polymer	025, 03, 04, 05, 06, 08, 10	\$22.73	\$25.00	B

*** DENOTES SIZE REQUIRED. TO ORDER ADD THE SIZE IN PLACE OF ***

AITTJ60 AIR INDUCTION TURBO TWINJET

- Air induction with dual 110° flat fan patterns
- 60° between leading and trailing spray patterns
- Best suited for postemergence applications
- Excellent drift control with coarse to extremely coarse droplets
- Available in VisiFlo color coded capacities (02 through 15)
- Pressure ranges from 1.5 – 7 Bar



TTI TWINJET (TTI60) 2, 4-D COMPLIANT NOZZLES

The TeeJet TTI60 air induction twin flat spray tip produces very coarse (VC) to ultra coarse (UC) droplets across a very wide pressure range (1.5 to 6 Bar) for maximum drift control along with improved coverage of a twin spray.

- Provides exceptional spray coverage for consistent, reliable weed control
- Fully compliant with the new 2,4-D label requirements
- TTI60 produces two 110 degrees wide angle, flat spray patterns for uniform coverage in broadcast applications
- 60 degrees angle between leading and trailing patterns for increased canopy penetration and leaf coverage
- All in one moulded nozzle and Quick TeeJet cap design provides automatic spray alignment
- Extremely large drift resistant droplets are produced through the use of a venturi air aspirator
- Available in VisiFlo colour coded capacities (02-08)
- Pressure range 1.5 - 6 Bar

TTI60-11004VP





REFER TO PAGES 104-105 FOR AUTOMATIC ALIGNMENT CAP & GASKET

Nozzles and Accessories



DROPLET SIZE INFORMATION

	AITTJ60 Air Induction Twin Turbo Nozzles						
	BAR						
	1.5	2	2.5	3	3.5	4	4.5
AITTJ60-11002	XC	VC	C	C	M	M	M
AITTJ60-110025	XC	VC	C	C	M	M	M
AITTJ60-11003	UC	XC	VC	C	C	M	M
AITTJ60-11004	UC	XC	VC	C	C	M	M
AITTJ60-11005	UC	XC	VC	VC	C	M	M
AITTJ60-11006	UC	XC	VC	C	C	M	M
AITTJ60-11008	UC	UC	XC	XC	VC	VC	C

	TTI60 Air Induction Twin Turbo Nozzles										
	BAR										
	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6	7
TTI60-11002	UC	UC	XC	XC	XC	VC	VC	VC	VC	VC	C
TTI60-110025	UC	UC	XC	XC	XC	VC	VC	VC	VC	VC	C
TTI60-11003	UC	UC	UC	UC	UC	XC	XC	XC	VC	VC	VC
TTI60-11004	UC	UC	UC	UC	UC	XC	XC	XC	VC	VC	VC
TTI60-11005	UC	UC	UC	UC	UC	XC	XC	XC	XC	VC	VC
TTI60-11006	UC	UC	UC	UC	UC	XC	XC	XC	XC	XC	VC
TTI60-11008	UC	UC	UC	UC	UC	UC	UC	UC	UC	XC	XC



Droplet Size Clarification

F	Fine	M	Medium	C	Coarse	VC	Very Coarse	XC	Extremely Course	UC	Ultra Course
---	------	---	--------	---	--------	----	-------------	----	------------------	----	--------------

CODE	ANG	DESCRIPTION	SIZES AVAILABLE	LIST EX	LIST INC	CAT
AITTJ60-110**VP	110°	Air Induction Turbo Twinjet - Poly	02, 025, 03, 04, 05, 06, 08	\$21.82	\$24.00	B
TTI60-1100**VP	110°	Air Induction Twinjet Flat Fan - Poly	02, 025, 03, 04, 05, 06, 08	\$31.82	\$35.00	B

*** DENOTES SIZE REQUIRED. TO ORDER ADD THE SIZE IN PLACE OF ***

2,4-D COMPLIANT NOZZLES

TURBO TEEJET INDUCTION (TTI)

- Produces Extremely Coarse (XC) and Ultra Coarse (UC) droplets across a very wide pressure range (1 - 7 Bar)
- Offers the lowest percentage of driftable droplets available (<1%)*
- Fully compliant with the new 2,4-D label requirements, including the advisory statements for summer spraying between Oct 3rd and April 15th
- 110 degrees wide angle, air induction, tapered flat spray tip pattern based on a patented outlet orifice design of the original Turbo TeeJet nozzle
- Patented orifice design provides large, round passages to minimize plugging
- All polymer construction for excellent chemical and wear resistance
- Compact size to prevent tip damage
- Removable pre-orifice
- Ideal for use with spray rate controllers

*University of Queensland, the TTI11002 spraying 2,4-D without adjuvant between 2-5 bar. Driftable droplets are defined as less than 150 microns.




TTI11002VP

TTI11002VP



DROPLET SIZE INFORMATION

	Turbo TeeJet Induction (TTI)						
	BAR						
	1.5	2	3	4	5	6	7
TTI110015	UC	UC	UC	XC	XC	VC	VC
TTI11002	UC	UC	UC	XC	XC	VC	VC
TTI110025	UC	UC	UC	UC	XC	VC	VC
TTI11003	UC	UC	UC	UC	XC	XC	VC
TTI11004	UC	UC	UC	UC	XC	VC	VC
TTI11005	UC	UC	UC	XC	XC	VC	C
TTI11006	UC	UC	UC	XC	VC	C	C

CODE	ANG	DESCRIPTION	SIZES AVAILABLE	LIST EX	LIST INC	CAT
TTI110***VP	110°	Poly - Turbo Induction Spray Tip	015, 02, 025, 03, 04, 05, 06	\$24.55	\$27.00	B


Refer to pages 104-105 for Automatic Alignment Cap & gasket



AOC AIR INDUCTION OFF CENTRE NOZZLES

- Made of moulded Delrin, a polymer ensuring high chemical stability and an exceptional long useful life.
- 80 degrees spray pattern and removable pre orifice for cleaning
- Sizes available from 02 to 05
- Supplied in the M99-73 fence line kit
- Ideal for drift reduction



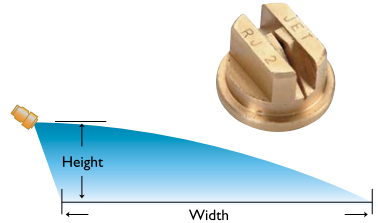
	Off Centre Air Induction Nozzles					
	BAR					
	1.5	2	3	4	6	8
AOC02	UC	UC	XC	XC	VC	VC
AOC025	XC	VC	C	C	C	C
AOC03	UC	XC	XC	VC	VC	C
AOC04	UC	XC	XC	XC	VC	VC
AOC05	UC	XC	XC	XC	VC	VC



BRASS OFF-CENTRE – SMALL CAPACITY

These spray tips are commonly installed in double and single swivel nozzle bodies. A wide spray swath is easily obtained from the bodies' easily adjustable angular position.

CODE	BAR	L/MIN	H = 45CM L/HA				
			W (CM)	4 KM/H	6 KM	8 KM	10 KM
OC-02	2.0	0.65	172	56.7	37.8	28.3	22.7
	3.0	0.79	177	66.9	44.6	33.5	26.8
	4.0	0.91	182	75.0	50.0	37.5	30.0
OC-03	2.0	0.96	195	73.8	49.2	36.9	29.5
	3.0	1.18	203	87.2	58.1	43.6	34.9
	4.0	1.36	208	98.1	65.4	49.0	39.2
OC-04	2.0	1.29	231	83.8	55.8	41.9	33.5
	3.0	1.58	236	100	66.9	50.2	40.2
	4.0	1.82	238	115	76.5	57.4	45.9
OC-06	2.0	1.94	251	116	77.3	58.0	46.4
	3.0	2.37	256	139	92.6	69.4	55.5
	4.0	2.74	259	159	106	79.3	63.5



CODE	DESCRIPTION	SIZES AVAILABLE	LIST EX	LIST INC	CAT
AOC0**	Poly Air Induction Off Centre Nozzle	02, 025, 03, 04, 05	\$11.82	\$13.00	B
OC.**	Brass - TeeJet Off Centre Nozzle	01, 02, 03, 04, 06, 08, 12, 16	\$31.82	\$35.00	B

*** DENOTES SIZE REQUIRED. TO ORDER ADD THE SIZE IN PLACE OF ***

LURMARK DEFLECTIP 80° – 145°

The Lurmark Deflectip produces a wide angled even spray (from 80 to 145 degrees) making it ideal for banding pre and post emergent herbicides.

- Large orifice produces coarser droplets which are less prone to drift and blocking
- Precision moulded in tough and durable polyacetal, with a spray angle tolerance of +/- 5%
- Requires 1m nozzle spacing

Fits in most nozzle caps

LC-15



CODE	ANGLE	DESCRIPTION	SIZES AVAILABLE	LIST EX	LIST INC	CAT
LC-**	80° -145°	Poly - Lurmark Deflectip Spray Nozzle	15, 20	\$8.64	\$9.50	B


HOLLOW CONE NOZZLES (HCC)

The ceramic hollow cone nozzles are designed for creating small droplets ideal for foliar application of insecticides and fungicides. Constructed with a moulded outer over a ceramic insert that is mated to a turbulence chamber and counter-swirling device which is easily separated for cleaning. The ceramic nozzle allows for long lasting life and the vortexing action in the nozzle provides a 80° spray angle between 3-5 bar and works well at both high and low operating pressures. The HCC ceramic hollow cone nozzles are the alternative to Albus ATR hollow cone nozzles. Maximum operating pressure 20 Bar.



HCC



	HCC Spray-Jet						
	BAR						
	3	4	5	6	8	10	15
HCC005	VF	VF	VF	VF	VF	VF	VF
HCC0075	F	VF	VF	VF	VF	VF	VF
HCC01	F	VF	VF	VF	VF	VF	VF
HCC015	F	F	VF	VF	VF	VF	VF
HCC02	F	F	F	VF	VF	VF	VF
HCC025	F	F	F	VF	VF	VF	VF
HCC03	F	F	F	VF	VF	VF	VF
HCC035	F	F	F	VF	VF	VF	VF
HCC04	F	F	F	F	F	VF	VF
HCC05	F	F	F	F	F	F	VF

HOLLOW CONE NOZZLES (TX)

VisiFlo colour-coded version consists of ceramic orifice in polypropylene body. Maximum operating pressure 20 bar. Spray angle is 80° at 7 Bar. Finely atomised spray pattern provides thorough coverage.

Excellent: Post – emergence contact herbicides, fungicides and insecticides ensures finely atomised spray droplets reach target areas.

Good: With defoliant & foliar fertilisers at 3 Bar pressure and above.



TX

CODE	ANG	DESCRIPTION	SIZES AVAILABLE	LIST EX	LIST INC	CAT
HCC***	80°	Ceramic-Hollow Cone Nozzle	005, 0075, 01, 015, 02, 025, 03, 035, 04, 05	\$14.55	\$16.00	B
TX-VK**	80°	Ceramic-Conejet Hollow Cone Nozzle	3, 4, 6, 8, 10, 12, 18, 26	\$18.18	\$20.00	B

*** DENOTES SIZE REQUIRED. TO ORDER ADD THE SIZE IN PLACE OF ***

APPLICATION RATES FOR HCC NOZZLES

HCC NOZZLES APPLICATION RATES

	BAR	L/MIN		BAR	L/MIN
HCC005	3	0.19	HCC025	3	1
	4	0.22		4	1.15
	6	0.27		6	1.41
	8	0.31		8	1.63
	10	0.35		10	1.83
	12	0.38		12	2
	15	0.42		15	2.24
	20	0.49		20	2.58
HCC0075	3	0.3	HCC03	3	1.2
	4	0.35		4	1.39
	6	0.42		6	1.7
	8	0.49		8	1.96
	10	0.55		10	2.19
	12	0.6		12	2.4
	15	0.67		15	2.68
	20	0.77		20	3.10
HCC01	3	0.4	HCC035	3	1.4
	4	0.46		4	1.62
	6	0.57		6	1.98
	8	0.65		8	2.29
	10	0.73		10	2.56
	12	0.8		12	2.8
	15	0.89		15	3.13
	20	1.03		20	3.61
HCC015	3	0.6	HCC04	3	1.6
	4	0.69		4	1.85
	6	0.85		6	2.26
	8	0.98		8	2.61
	10	1.1		10	2.92
	12	1.2		12	3.2
	15	1.34		15	3.58
	20	1.55		20	4.13
HCC02	3	0.8	HCC05	3	2
	4	0.92		4	2.31
	6	1.13		6	2.83
	8	1.31		8	3.27
	10	1.46		10	3.64
	12	1.6		12	4
	15	1.79		15	4.47
	20	2.07		20	5.16

TX NOZZLES APPLICATION RATES

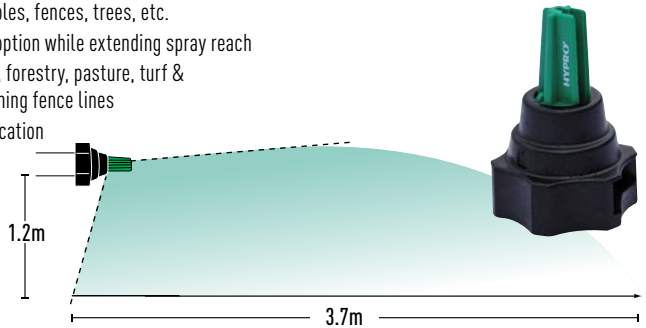
	BAR	L/MIN
"TX-VK3 (100 MESH)"	5	0.25
	7	0.28
	10	0.33
	15	0.39
	20	0.45
"TX-VK4 (50 MESH)"	5	0.33
	7	0.39
	10	0.45
	15	0.55
"TX-VK6 (50 MESH)"	20	0.62
	5	0.5
	7	0.58
	10	0.68
	15	0.82
"TX-VK8 (50 MESH)"	20	0.93
	5	0.67
	7	0.79
	10	0.93
	15	1.1
"TX-VK10 (50 MESH)"	20	1.3
	5	0.84
	7	0.98
	10	1.2
	15	1.4
"TX-VK12 (50 MESH)"	20	1.6
	5	1
	7	1.2
	10	1.4
	15	1.7
"TX-VK18 (50 MESH)"	20	2
	5	1.5
	7	1.8
	10	2.2
"TX-VK26 (50 MESH)"	15	2.6
	20	3
	5	2.2
	7	2.6
	10	3.1
	15	3.8
	20	4.4



HYPRO BOOMLESS NOZZLES

Eliminate the need for a spraying boom with the durable boomless nozzle that provides efficient spray.

- Ideal for applications where a conventional boom cannot be used due to obstacles, such as power poles, fences, trees, etc.
- Coarse droplet size, excellent low drift option while extending spray reach
- Common uses include orchard, vineyard, forestry, pasture, turf & golf course spraying, as well as maintaining fence lines
- Designed for herbicide or fertiliser application
- Maintains a consistent and adjustable spray swath over a pressure range of 2-4 Bar
- Includes quick connect cap and gasket for easy handling
- Excellent durability & low maintenance



CODE	PRESSURE	L/MIN	SWATH WIDTH	L/HA				LIST EX	LIST INC	CAT
				6 KM/H	8 KM/H	12 KM/H	16 KM/H			
FC-XT010	2 Bar/30 psi	3.2	3.7	83	62	41	31	\$108.18	\$119.00	B
FC-XT020	2 Bar/30 psi	6.4	4.8	134	101	67	50	\$108.18	\$119.00	B
FC-XT024	2 Bar/30 psi	7.7	4.9	158	118	79	59	\$108.18	\$119.00	B
M99-75B-1	Nozzle suit M99-75B	3.2	3.7	83	62	41	31	\$44.55	\$49.00	B

FERTILISER NOZZLES

STREAMJET SJ-3 FERTILISER (3 STREAM)

- Removable metering orifice for easy cleaning
- Equally spaced distribution at 50cm height
- Use with Quick TeeJet cap 114443-* -celr
- All acetel construction for excellent chemical resistance
- Recommended operating pressure: 1.5-4 Bar



CODE	DESCRIPTION	SIZES AVAILABLE	LIST EX	LIST INC	CAT
SJ3-***-VP	Poly - 3 Stream Streamjet Fertilizer Nozzles	015,02,03,04,05,06,08,10,15,20	\$27.27	\$30.00	B

*** DENOTES SIZE REQUIRED. TO ORDER ADD THE SIZE IN PLACE OF ***

Nozzles and Accessories

UNI CAP

- Universal nozzle cap suitable for use with the majority of nozzles used in agriculture today
- Lower stock costs and easier managing
- Supplied with gasket

Suitable for the following nozzles:

- ARAG® Kematal

- Lurmark® Flat Fan Tips
- Lechler Series 652, IDK, Air Mix
- Lechler series ID, LU
- TeeJet® Flat Fan Tips Std
- TeeJet® FL Fulljet
- TeeJet® TG Fullcone



CODE	DESCRIPTION	COLOUR	LIST EX	LIST INC	CAT
40299003	Uni Cap	Red	\$5.45	\$5.99	B

TEEJET RETRO CAPS FOR HARDI BOOM SPRAYERS



HARDI NOZZLE BODY
CAP - CP21399-6-CE
GASKET - CP23308-EPR
NOZZLE - TT11002-VP



CAP - CP21399-6-CE
GASKET - CP23308-EPR
NOZZLE - AI11002-VS



CAP - CP23307-6-CE
GASKET - CP23308-EPR
NOZZLE - AIXR11002-VP



HARDI NOZZLE BODY
ADAPTOR C/W GASKET - 55240 CELR
NOZZLE, CAP, GASKET - TT160-11002VP

CAPS FOR HARDI NOZZLE BODIES

QUICK TEEJET CAPS	CAP ONLY	LIST EX	LIST INC	CAT	NOZZLE SELECTION	<i>*HARDI is a registered trademark of HARDI</i>
	CP21399-6-CE	\$3.56	\$3.92	B	TJ TwinJet* AI TeeJet* & AIUB TeeJet* SJ-3 StreamJet* DG TwinJet* Turbo TeeJet* Induction	
	CP23307-4-CE	\$4.55	\$5.00	B	TP Standard -0067 Thru -08 XR -01 Thru -08 DG TeeJet* TT	
	CP23307-6-CE	\$4.55	\$5.00	B	Turbo TwinJet* AIXR TeeJet* OC TeeJet* -01 Thru -08	
	55240-CELR	\$9.09	\$10.00	B	ADAPTOR AND GASKET SUIT HARDI NOZZLE BODY	
	CP23308-EPR	\$2.96	\$3.26	B		

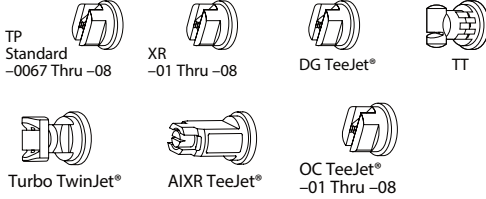
Silvan self-aligning nozzle caps are designed to fit all popular brands of spray tips including fan, cone, anvil and other specialised nozzles. Cap sealing gaskets are manufactured from chemical resistant EPDM material.

FOR USE WITH SPRAY TIPS (REFERENCE GUIDE ONLY)	COLOUR CAPS	CAP CODE	LIST EX	LIST INC	CAT	GASKET ONLY CODE	LIST EX	LIST INC	CAT
 TeeJet® Flat Spray Tips Lurmark Flat Fan Tips Albus Flat Fan Tips (Fits Sizes 01 To 08) Lechler IDK		G8253000	\$3.18	\$3.50	B	402200-040	\$2.45	\$2.70	B

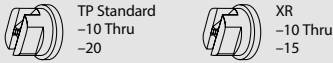
Maximum operating pressure 30 Bar (435 psi).

FOR USE WITH SPRAY TIPS) REFERENCE GUIDE ONLY)

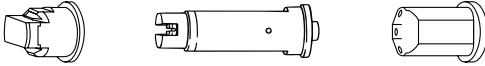
TeeJet Flat Spray Tips (Smaller Capacities)



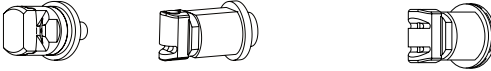
TeeJet Flat Spray Tips (Larger Capacities)



TJ TwinJet® AI TeeJet® & AIUB TeeJet® SJ-3 StreamJet®



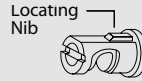
DG TwinJet® Turbo TeeJet Induction® AITTJ60 Turbo TwinJet®



Turbo FloodJet® VisiFlo® Spray Tip



TK-VS FloodJet® VisiFlo Spray Tip



TK FloodJet®



FL FullJet®



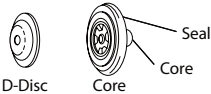
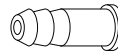
TX ConeJet®



TG Full Cone



Hose Shank



CP18999E PR
(EPDM standard)

CP18999-VI
(Viton® optional)

Used with DC-Core Inserts and
CP4916 Flow Regulators (Insert
Core into Seal)

Ceramic Disc-Core



HCC




Provides shut-off at nozzle for quick spacing change or change in spray swath

CP19438-EPR (EPDM standard) Gasket only

CP19438-VI (Viton optional) Gasket only

Nozzles and Accessories



COLOUR NOZZLE CAPS	TEEJET CAP CODE	LIST EX	LIST INC	CAT	TEEJET GASKET & CAP KIT CODE	LIST EX	LIST INC	CAT
	CP114440-3-CE	\$2.00	\$2.20	B	114441-3-CELR	\$3.55	\$3.90	B
	CP114440-4-CE				114441-4-CELR			
	CP114440-5-CE				114441-5-CELR			
	CP114440-6-CE				114441-6-CELR			
	CP114440-7-CE				114441-7-CELR			
	CP114440-8-CE							
	CP25609-4-NY	\$2.27	\$2.50	B	25610-1-NYR	\$3.63	\$3.99	B
	CP25609-6-NY							
	CP114442-3-CE	\$2.27	\$2.50	B	114443-3-CELR	\$3.63	\$3.99	B
	CP114442-4-CE				114443-4-CELR			
	CP114442-5-CE				114443-5-CELR			
	CP114442-6-CE				114443-6-CELR			
	CP114442-7-CE				114443-1-CELR			
	CP25599-3-NY	\$2.27	\$2.50	B	25600-6-NYR	\$3.63	\$3.99	B
	CP25599-6-NY							
	CP114444-3-CE	\$2.27	\$2.50	B	114445-1-CELR	\$3.63	\$3.99	B
	CP114444-4-CE				114445-3-CELR			
	CP114444-5-CE				114445-4-CELR			
	CP114444-6-CE							
	CP26277-1-NY	\$4.08	\$4.49	B	26278-1-NYR	\$6.18	\$6.80	B
	N/A	N/A	N/A	B	114447-1-CELR	\$6.45	\$7.10	B
		\$1.32	\$1.45	B				
		\$8.47	\$9.32	B				

CP19438-EPR (EPDM standard)

CP19438-VI (Viton optional)



TEEJET NOZZLE CAPS

The Quick TeeJet® caps are designed with grooves that fit locating lugs on the nozzle body. Caps are made of nylon and are available for use with all TeeJet spray tips. Maximum operating pressure of 20 Bar.

*Specify colour code (see chart), e.g.: CP114440-3-CE will supply red cap.

Nozzles and Accessories



ATV BOOMLESS NOZZLE KIT

Ideal for applications where a conventional boom cannot be used due to obstacles, such as power poles, guardrails, fences, trees, etc.

- Attaches to ATV rack and runs off your 12V pump/RakPak
- Fitted with 30cm of hose with clamp to attach to quad bike carry frame
- Durable nozzle produces large droplet size for herbicide or fertiliser application
- **M99-75B:** Double sided output suits pumps 10 - 20L/min (2-4 Bar pressure)

Includes blanking cap for single side spray applications



M99-75B (2 jet)
7.4m full spray reach

Application Rate Chart M99-75B Litres/Hectare

Application Rate Chart M99-75B Litres/Hectare									
Application Rate L/ha at km/hr									
Description	Swath	Bar	L/min	4 km/hr	5 km/hr	6 km/hr	8 km/hr	10 km/hr	12 km/hr
Single Side 1 Nozzle Pumps 5-10L/min		2	3.2	130	104	86	65	52	43
	3.7m	3	3.9	158	126	105	79	63	53
		4	4.6	186	149	124	93	75	62
Double Side 2 Nozzle Pumps 10-20L/min		2	6.4	130	104	86	65	52	43
	7.4m	3	7.8	158	126	105	79	63	53
		4	9.2	186	149	124	93	75	62

CODE	DESCRIPTION	PRESSURE	L/MIN (UP TO)	SWATH WIDTH	NOZZLE COLOUR	LIST EX	LIST INC	CAT
M99-75B	Boomless Nozzle Kit 2 Jet	2 Bar/30 psi	7.6	7.4		\$159.09	\$175.00	B
M99-75B-1	Replacement Nozzle for M99-75B					\$44.55	\$49.00	B

Nozzles and Accessories

Image for illustrative purposes only.
Spray tank not included.

4.8 metres

4.8 metres

9.6 metres full spray reach

TPL BOOMLESS NOZZLE

Specifically designed for a 3 point linkage unit running between 2 and 4 bar spraying pressure. It can spray up to 9.6 metres wide and is available with an optional mounting bracket that fits between the upright bars on Silvan linkage equipment.

- Sprays 4.8 metres one side or 9.6 metres both sides together
- Can spray one or both sides with blanking cap included
- Fitted with 2.5 metres of Ag hose
- Replacement Nozzle, Cap and gasket order code is FC-XT020



Application Rate Chart M99-76 Litres/Hectare

Application Rate L/ha at km/hr											
Description	Swath (M)	Bar	L/min	4 kmh	5 km/hr	6 km/hr	8 km/hr	10km/hr	12km/hr	14km/hr	16km/hr
Single Side 1 Nozzle		2	6.4	200	160	133	100	80	67	57	50
	4.8	3	7.9	247	198	165	123	99	82	71	62
		4	9.1	284	228	190	142	114	95	81	71
Double Side 2 Nozzle	Swath (M)	Bar	L/min	4 kmh	5 km/hr	6 km/hr	8 km/hr	10km/hr	12km/hr	14km/hr	16km/hr
		2	12.8	200	160	133	100	80	67	57	50
	9.6	3	15.8	247	198	165	123	99	82	71	62
		4	18.2	284	228	190	142	114	95	81	71

CODE	DESCRIPTION	PRESSURE	L/MIN (UP TO)	SWATH WIDTH	NOZZLE COLOUR	LIST EX	LIST INC	CAT
M99-76	Boomless Nozzle Kit 2 Jet	2 Bar/30 psi	18.2	10.4		\$271.82	\$299.00	B
K99-10	MKII MOUNT KIT (EXCLUDING BOOMLESS NOZZLE)					\$250.00	\$275.00	A
FC-XT020	Replacement Blue Nozzle, cap and gasket					\$108.18	\$119.00	B

Nozzles and Accessories



M99-65

BRASS BOOMLESS NOZZLES KIT WITH SINGLE OR DOUBLE SIDED SWATH

These compact kits offer broadcast spraying, ideal for applications around obstacles that could damage a traditional boom such as fences, guardrails and power poles.

- Attaches to an ATV rack, UTV or side-by-side or side framework with supplied clamp
- Supplied with 600mm of 12mm I.D hose with Inline tap to turn isolate flow or turn on/off
- Supplied with both single and twin sided nozzles
- Compatible with a broad range of Silvan spray equipment



6560-01 (M99-65)
6561-01 (M99-66)

M99-65 (SIZE 02)

- Pump flow suitable is 7L/min (DDP-552A - Smoothflo)
- Spray swath single from 3.8m or double 7.6m

M99-66 (SIZE 05)

- Pump flow suitable is 11-14L/min 381-125, 361-2088 or DDP-555
- Spray swath single from 6.7m or double 13.4m

Operating Information For 180 Degrees Brass Nozzles

				LITRES PER HECTARE - (Speed Km per hour)				
Product Code	Bar	L/min	Spray Swath	4.8 Km/h	6.4 Km/h	8 Km/h	12.8 Km/h	16 Km/h
M99-65	2	3.22	6.7	60	45	36	22.5	18
	2.75	3.8	7	67.8	50.8	40.7	25.4	20.4
	3.4	4.18	7.3	71.5	53.7	42.9	26.8	21.5
	4.1	4.56	7.6	75	56.3	45	28.1	22.5
M99-66	2	6.44	13.4	60	45	36	22.5	18
	2.75	7.6	14	67.8	50.8	40.7	25.4	20.4
	3.4	8.36	14.6	71.5	53.7	42.9	26.8	21.5
	4.1	9.12	15.2	75	56.3	45	28.1	22.5

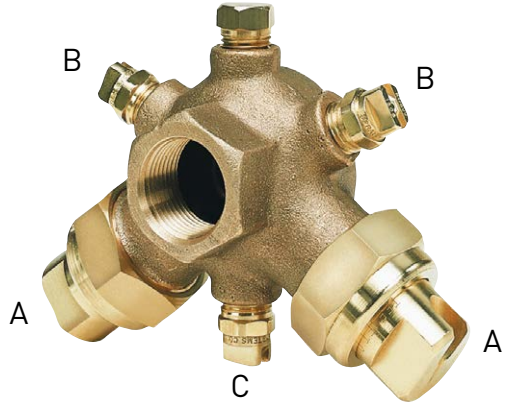
Please note: 90 degrees nozzles have the same litres per hectare but 1/2 the litres per minute and spray swath

CODE	DESCRIPTION	PRESSURE	L/MIN (UP TO)	SWATH WIDTH	LIST EX	LIST INC	CAT
M99-65	Boomless Nozzle (02)	2 to 4 Bar	4.56	7.6	\$180.91	\$199.00	B
M99-66	Boomless Nozzle (05)	2 to 4 Bar	9.12	15.2	\$190.91	\$210.00	B
6560-01	Nozzle only Suit M99-65				\$90.00	\$99.00	B
6561-01	Nozzle only Suit M99-66				\$86.36	\$95.00	B

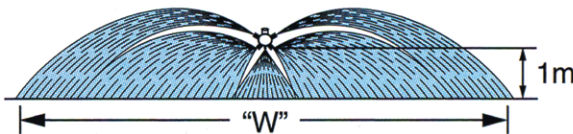
BOOMLESS NOZZLE WITH EXTRA WIDE FLAT SPRAY PROJECTION

Type 5880 Boomjet Nozzle is used for spraying areas not easily accessed with a boom sprayer. It combines two off-centre tips and three VeeJet nozzles to produce an overall wide swath flat spray. The nozzle assembly provides good distribution considering the wide pattern coverage obtained, however the uniformity is not as good as with a properly operated boom sprayer. Uniformity can be optimised by double overlapping spray swaths on successive sprayer passes. Remember this also doubles the application volume.

Supplied with one additional 1/4" NPT pipe plug and one blank tip for setting BoomJet to one side only. Also has a 1/4" NPT pressure gauge port.



5880-3/4-2TOC06;
5880-3/4-2TOC10;
5880-3/4-2TOC20;
5880-3/4-2TOC40



**W = Maximum effective coverage
with nozzle mounted at 1m height**

CODE	NOZZLE A	NOZZLE B	NOZZLE C	BAR	L/MIN	I/HA					LIST EX	LIST INC	CAT	
						WIDTH	6 KM/H	8 KM/H	12 KM/H	16 KM/H				24 KM/H
5880-3/4-2TOC06	6733-OC06	H1/4VV- 1506	H1/4VVL-9502 with 50 mesh strainer	1.5	7.26	10.2M	71.2	53.4	35.6	26.7	17.8	\$645.45	\$710.00	B
				2.0	8.38	10.3M	81.4	61.0	40.7	30.5	20.3			
				2.5	9.37	10.5M	89.2	66.9	44.6	33.5	22.3			
5880-3/4-2TOC10	OC-10	H1/4U-0508HE	H1/4VVL-11004 with 50 mesh strainer	1.5	11.16	12.0M	93.0	69.8	46.5	34.9	23.3	\$645.45	\$710.00	B
				2.0	12.89	12.1M	107.0	79.9	53.3	39.9	26.3			
				2.5	14.41	12.3M	117.0	87.9	58.6	43.9	29.3			
5880-3/4-2TOC20	OC-20	H1/4U-0520HE	H1/4VVL-9506 with 50 mesh strainer	1.5	24.00	14.3M	168.0	126.0	83.9	62.9	42.0	\$645.45	\$710.00	B
				2.0	27.72	15.2M	182.0	137.0	91.2	68.4	45.6			
				2.5	30.99	15.8M	196.0	147.0	98.1	73.6	49.0			
5880-3/4-2TOC40	OC-40	H1/4U-0540HE	H1/4U-9510	1.5	47.44	17.1M	277.0	208.0	139.0	104.0	69.4	\$645.45	\$710.00	B
				2.0	54.78	18.2M	300.01	226.0	150.0	113.0	75.2			
				2.5	61.25	19.2M	319.0	239.0	160.0	120.0	79.8			

NOZZLE FILTRATION

Nozzle or tip filters provide the final stage of filtration before the liquid is sprayed. They are available as standard or small cup type filters and fit most nozzle holders. Also available in anti-drip versions.

CUP STRAINERS

- Stainless steel construction
- Choice of 50 and 100 mesh screens



50 Mesh



100 Mesh



G8139001

10 PACK

4067 SERIES

CODE	MESH SIZE	MESH SCREEN MATERIAL	TYPE	STRAINER BODY & CAP MATERIAL	LIST EX	LIST INC	CAT
PKT-4067-SS-50	50	Stainless Steel	CUP	Stainless Steel	\$47.27	\$52.00	B
PKT-4067-SS-100	100	Stainless Steel	CUP	Stainless Steel	\$47.27	\$52.00	B
G8139001	50	Stainless Steel	CUP	Nylon	\$3.64	\$4.00	B

POLY TIP STRAINERS

Tip strainers protect the spray tip orifice from clogging and damage. Stainless steel screens available in 50 and 100 mesh.



50 Mesh



100 Mesh

10 PACK

8079 SERIES

CODE	MESH SIZE	MESH SCREEN MATERIAL	TYPE	STRAINER BODY & CAP MATERIAL	LIST EX	LIST INC	CAT
PKT-8079-PP-50	50	Stainless Steel	Standard	Polypropylene	\$38.18	\$42.00	B
PKT-8079-PP-100	100	Stainless Steel	Standard	Polypropylene	\$38.18	\$42.00	B

TIP STRAINER WITH CHECK VALVE

Ideal for knapsacks and 12V sprayers by eliminating any excess drips. Fits all Silvan nozzle bodies.

- Ball check opens at (0.34 Bar)
- Recommended for flow rates up to 3 L/min
- Available in 50 and 100 mesh screens
- Not for use with DG, Al or TTI nozzles

Note: Use of these ball check valves results in a pressure drop of (0.34 Bar)



4193A SERIES

NOTE: CUT-AWAY PICTURE SHOWN FOR ILLUSTRATIVE PURPOSES ONLY

CODE	MESH SIZE	MESH SCREEN MATERIAL	TYPE	STRAINER BODY & CAP MATERIAL	LIST EX	LIST INC	CAT
4193A-10-50SS	50	Stainless Steel	Standard With Check Valve	Brass	\$13.64	\$15.00	B
4193A-PP-10-100SS	100	Stainless Steel	Standard With Check Valve	Polypropylene	\$10.00	\$11.00	B
4193A-PP-10-50SS	50	Stainless Steel	Standard With Check Valve	Polypropylene	\$10.00	\$11.00	B

NON-DRIP NOZZLE HOLDERS

Single clamping screw on the 1/2" model.
Non-drip shut-off valve. Opens above 0.5 Bar.
Includes nozzle body & cap, gasket & screw.



AR-200



AR-210

CODE	INLET SIZE	TUBE SIZE	MAX PRESSURE	LIST EX	LIST INC	CAT
AR-200 (4 pack)	7mm	1/2"	20 Bar	\$81.82	\$90.00	B
AR-210 (4 pack)	10mm	3/4"	20 Bar	\$90.00	\$99.00	B
G8253000	Replacement cap			\$3.18	\$3.50	B
402200-040	Washer suit cap			\$2.45	\$2.70	B

TEEJET NOZZLE HOLDERS

- Features ChemSaver® drip-free shut-off
- Requires 0.7 Bar the nozzle to open check valve

Note: Excludes nozzle cap and gasket



CODE	INLET SIZE	TUBE SIZE	MAX PRESSURE	LIST EX	LIST INC	CAT
QJ17560A-1/2x7-NYB	7mm	1/2"	20 Bar	\$10.00	\$11.00	B
QJ17560A-1/2-NYB	9.5mm	1/2"	20 Bar	\$10.00	\$11.00	B
QJ17560A-3/4-NYB	9.5mm	3/4"	20 Bar	\$10.91	\$12.00	B
QJ17560A-1-NYB	9.5mm	1"	20 Bar	\$10.00	\$11.00	B

TEEJET MULTIPLE NOZZLE HOLDERS

This 3 position nozzle holder features a positive shut-off between each position and includes ChemSaver® diaphragm check valve for drip-free shut-off.

Note: Excludes nozzle caps and gaskets



CODE	INLET SIZE	TUBE SIZE	MAX PRESSURE	LIST EX	LIST INC	CAT
QJ363C-1/2-NYB	9.5mm	1/2"	20 Bar	\$45.45	\$50.00	B
QJ363C-3/4-NYB	9.5mm	3/4"	20 Bar	\$45.45	\$50.00	B
QJ363C-1-NYB	9.5mm	1"	20 Bar	\$45.45	\$50.00	B

Nozzles and Accessories

Dry boom nozzle holders are designed for mounting directly to boom frame for variable nozzle spacings when used with hose and clamps. Fits round or square tubing or pipe and is connected by hose and clamps. Polypropylene construction with max pressure of 20 Bar.

8235 SERIES

Self aligning nozzle cap. Available in single or double hose-tails. Non-drip shut-off valve standard (open 0.5 Bar).

- Excludes nozzles and caps



G8235021



G8235027

CODE	NOZZLE HOLDER TYPE	INLET HOSE TAIL SIZE I.D.	MAX PRESSURE	LIST EX	LIST INC	CAT
G8235021	SINGLE	1/2"	20 Bar	\$30.91	\$34.00	B
G8235027	DOUBLE	1/2"	20 Bar	\$26.36	\$29.00	B

193 SERIES

- Drip free shut-off with ChemSaver®
- Opening pressure - (0.7 Bar)
- Available in single or double hose shanks
- Hose barb sizes for 3/8", 1/2" or 3/4" I.D. hose
- Use with Vari Spacing clamps (Refer Page 111)
- Excludes nozzles and caps



19349



19350

CODE	REF	NOZZLE HOLDER TYPE	INLET HOSE TAIL SIZE I.D.	MAX PRESSURE	LIST EX	LIST INC	CAT
19349-211-406-NYB	A	SINGLE	3/8"	8 Bar	\$26.36	\$29.00	B
19349-211-540-NYB	A	SINGLE	1/2"	8 Bar	\$26.36	\$29.00	B
19349-211-785-NYB	A	SINGLE	3/4"	8 Bar	\$26.36	\$29.00	B
19350-212-406-NYB	B	DOUBLE	3/8"	8 Bar	\$26.36	\$29.00	B
19350-212-540-NYB	B	DOUBLE	1/2"	8 Bar	\$26.36	\$29.00	B
19350-212-785-NYB	B	DOUBLE	3/4"	8 Bar	\$26.36	\$29.00	B

QJ39685 SERIES

- TeeJet ChemSaver® drip-free shut-off
- Made of corrosion-resistant materials
- Excludes nozzles and caps



1



2



3

CODE	REF	NOZZLE HOLDER TYPE	INLET HOSE TAIL SIZE I.D.	MAX PRESSURE	LIST EX	LIST INC	CAT
QJ39685-1L-500-NYB	1	SINGLE LEFT	1/2"	20 Bar	\$16.36	\$18.00	B
QJ39685-1R-500-NYB	2	SINGLE RIGHT	1/2"	20 Bar	\$16.36	\$18.00	B
QJ39685-2-500-NYB	3	DOUBLE	1/2"	20 Bar	\$16.36	\$18.00	B

POLY - SWIVEL NOZZLE HOLDERS

Features an adjustable spray angle with lock nut to hold body in place. Self-aligning nozzle cap. Ideal for use in row crop application or fence line spraying. Uses bayonet caps.



BRASS - SWIVEL NOZZLE HOLDERS

Plated brass adjustable angle swivel bodies. Threaded nozzle caps for high pressure application and row crop spraying. Single or twin outlets.

G8247004



G8247008



CODE	NOZZLE HOLDER TYPE	INLET SIZE (BSP)	MAX PRESSURE	LIST EX	LIST INC	CAT
G8247014	Double Poly	1/4" F	10 Bar	\$30.91	\$34.00	B
G8247004	Single Brass	1/4" F	20 Bar	\$42.73	\$47.00	B
G8247008	Double Brass	1/4" F	20 Bar	\$54.55	\$60.00	B

NOZZLE ADAPTORS

- Features ChemSaver® non-drip shutoff
- Requires (0.7 bar) at the nozzle to open check valve
- QJ8360-NYB allows use of Quick TeeJet system from 1/4" NPT female connections
- QJT8360-NYB permits use of Quick TeeJet system with standard 11/16" TeeJet thread

Uses bayonet caps.



QJ8360-NYB



QJT8360-NYB

CODE	THREAD SIZE	ANTI-DRIP VALVE	MAX PRESSURE	LIST EX	LIST INC	CAT
QJ8360-NYB	1/4" NPT (M)	YES	20 Bar/290 psi	\$19.09	\$21.00	B
QJT8360-NYB	11/16" TeeJet THREAD (F)	YES	20 Bar/290 psi	\$19.09	\$21.00	B

VARI SPACING CLAMPS

These clamps are for use on all dry boom nozzle bodies. Simply order the round or square clamps for the required O.D. tubing.

- Example: QJ111-1/2 (Round 1/2" tubing).



QJ111-1/2



QJ111SQ-3/4

CODE	REF	TO FIT	LIST EX	LIST INC	CAT
QJ111-1/2	1	1/2" Pipe (13/16" & 7/8" O.D. Tubing)	\$7.27	\$8.00	B
QJ111-3/4	1	3/4" Pipe (1" & 11/16" O.D. Tubing)	\$7.27	\$8.00	B
QJ111-1	1	1" Pipe (11/8", 11/4" & 13/8" O.D. Tubing)	\$7.27	\$8.00	B
QJ111-1-1/4	1	1-1/4" Pipe (19/16" & 111/16" O.D. Tubing)	\$7.27	\$8.00	B
QJ111SQ-3/4	2	3/4" Square Tubing	\$7.27	\$8.00	B
QJ111SQ-1	2	1" Square Tubing	\$7.27	\$8.00	B
QJ111SQ-1-1/4	2	1-1/4" Square Tubing	\$7.27	\$8.00	B
QJ111SQ-1-1/2	2	1-1/2" Square Tubing	\$7.27	\$8.00	B

TEEJET SWIVEL NOZZLE HOLDERS

TeeJet swivel nozzle bodies are primarily for use with tips employed in row crop spraying. A locknut holds swivel bodies firmly in position at a selected spray projection angle so they are not affected by jarring and vibration.

For use at pressures up to (8.6 Bar). These are also available in the QJ8600 swivel Quick TeeJet nozzle body assemblies which provide the same spray tip adjustability of a standard TeeJet threaded swivel plus the quick change and self-aligning features of the Quick TeeJet System.

- Caps sold separately



QJ8600-1/4-NYB



QJ8600-2-1/4-NYB



Uses brass caps - CP1325

CODE	INLET SIZE BSP	MATERIAL	SWIVEL ARC RANGE	MAX PRESSURE	LIST EX	LIST INC	CAT
QJ8600-1/4-NYB	1/4" NPT (F)	Nylon	280°	8 Bar	\$20.00	\$22.00	B
QJ8600-2-1/4-NYB	1/4" NPT (F)	Nylon	280°	8 Bar	\$23.64	\$26.00	B
5000-1/4T	1/4" NPT (F)	Brass	280°	8 Bar	\$59.09	\$65.00	B
4202-2-1/4T	1/4" NPT (F)	Brass	280°	8 Bar	\$71.82	\$79.00	B
6240-1/4TT	1/4" NPT (M)	Brass	280°	8 Bar	\$61.82	\$68.00	B

TEEJET NOZZLE CAPS

Secure interchangeable TeeJet tips to the various nozzle bodies.



CP1325



CP8027-NYB



CODE	MATERIAL	LIST EX	LIST INC	CAT
CP1325	Brass	\$4.09	\$4.50	B
CP8027-NYB	Nylon	\$2.27	\$2.50	B

HIGH PRESSURE NOZZLE HOLDERS

NON DRIP BRA SERIES

Brass flip over nozzle fitted with anti-drip valve with viton diaphragm. Anti-drip valve opens at 1 Bar pressure. 1/4" BSP thread, all brass construction, ceramic tips, stainless steel swirl plates, 90° shut off.



MA3-66

68 SERIES

Double sided version of Single Series.



MA3-68

CODE	INLET SIZE	NOZZLE SIZE	ANTI DRIP VALVE	MAX PRESSURE	LENGTH	WIDTH	HEIGHT	LIST EX	LIST INC	CAT
MA3-68	1/4" Male	1.2/1.5	NO	50 Bar	70mm	30mm	60mm	\$90.00	\$99.00	B
MA3-66	1/4" Male	1.2/1.5	YES	50 Bar	80mm	30mm	40mm	\$61.82	\$68.00	B

VINE SERIES

Features adjustable spray pattern simply by twisting rear adjusting nut. Supplied with 1/4" BSP swivel which allows the nozzle to be locked in almost any spray angle/position. Brass construction with ceramic nozzle tip.



P50A

SINGLE SERIES

Flip over nozzle fitted with 1/4" BSP thread, all brass construction, ceramic tip, stainless steel swirl plate, 90° shut off.



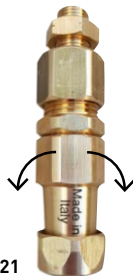
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CODE	INLET SIZE	NOZZLE SIZE	ANTI DRIP VALVE	MAX PRESSURE	LENGTH	WIDTH	HEIGHT	LIST EX	LIST INC	CAT
P50A	1/4" Male	1.2	NO	50 Bar	100mm	25mm	70mm	\$90.00	\$99.00	B
G8264000A	1/4" Male	1.2	NO	50 Bar	50mm	30mm	60mm	\$53.64	\$59.00	B

ADJUSTABLE CANNON

Ideal for use in high volume pressure applications in heavy foliage.

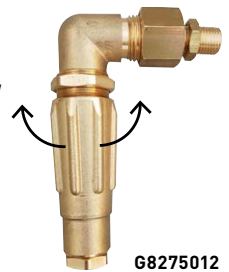
- Brass construction and adjustable spray pattern
- Nozzles and washers sold separately
- Nozzle 1.5 (D15) refer **G8259170**
- Washer refer **G600002032**



G8275021

Ideal for use in high volume pressure applications in heavy foliage.

- Brass construction and adjustable spray pattern
- Supplied with a 1.5 (D15) ceramic nozzle



G8275012

CODE	INLET SIZE	NOZZLE SIZE	ANTI DRIP VALVE	MAX PRESSURE	LENGTH	WIDTH	HEIGHT	LIST EX	LIST INC	CAT
G8275012	1/4" Male	1.5	NO	50 Bar	115mm	30mm	80mm	\$48.33	\$53.16	B
G8275021	1/4" Male	1.5	NO	50 Bar	100mm	30mm		\$54.55	\$60.00	B
G8259170	NOZZLE CERAMIC 1.5 D15							\$4.80	\$5.28	B
G600002032	GASKET SUIT S/S CORE D15.							\$0.86	\$0.95	B