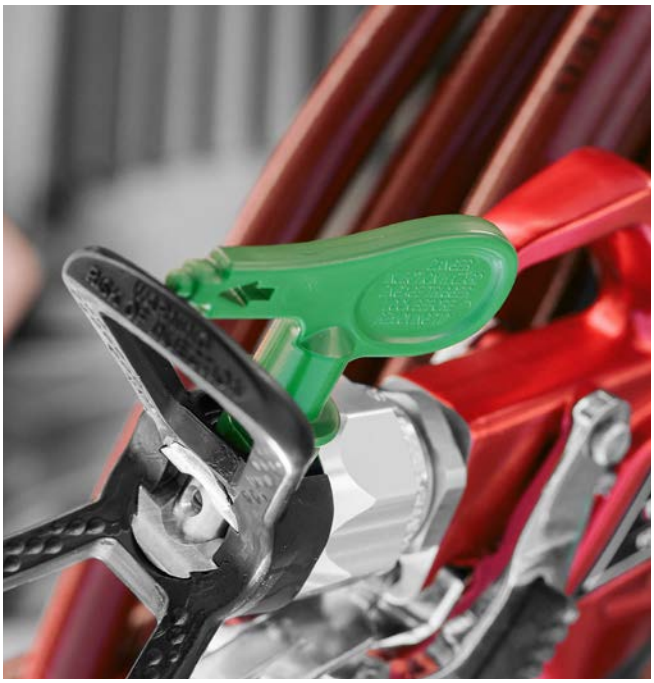


THE INDUSTRY LEADER IN TIP TECHNOLOGY

Airless spray tips are a key component to the successful operation of an airless spray system. They define the spray pattern, control the flow, atomize the coating and ultimately tell the pump how hard it must work. A proper understanding of airless tips is critical to the success of any airless application.

Tip Characteristics

It is important to remember that the orifice size, in conjunction with the fan-width, determines the spray characteristics of the tip.

Tip Wear

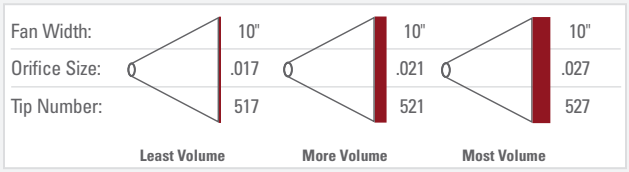
When beginning a project, choosing the right tip size and fan width will determine both coating consumption and production time. If the tip size is wrong — either by choice or through wear — mil thicknesses will be too heavy and the finish will be unprofessional.

The spray pattern chart demonstrates what happens as a tip wears. As wear occurs, the pattern size decreases and the orifice size increases. You will have to make more passes to cover the same area. There is no standard rate of tip wear due to the variation of the abrasiveness of all coatings.

Examples for Understanding Airless Tips

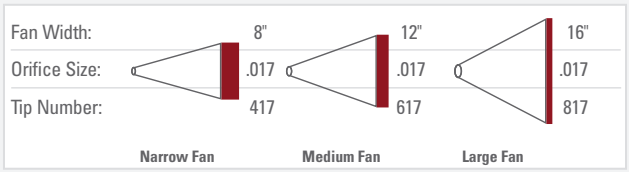
Example A:

The larger the orifice with the same fan width, the greater the volume of paint applied to the area.



Example B:

The larger the fan width with the same orifice means the same amount of material is being applied over a greater area. The result is less volume of paint per square inch.



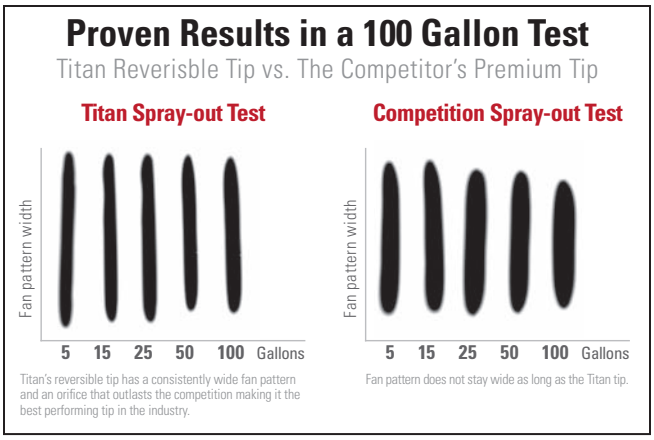
How a Tip Fan Pattern Typically Wears

SC-6+ WITH 517 TIP			
SPRAY PATTERN WIDTHS			
New 517	Worn to 419	Worn to 321	Worn to 223
			
FLOW RATES			
.31 gpm (1.17 lpm)	.39 gpm (1.47 lpm)	.47 gpm (1.78 lpm)	.57 gpm (2.15 lpm)
FLOW RATE INCREASE			
0%	26%	52%	84%

WITH 517 TIP			
SPRAY PATTERN WIDTHS			
New 517	Worn to 519	Worn to 521	Worn to 523
			
FLOW RATES			
.31 gpm (1.17 lpm)	.39 gpm (1.47 lpm)	.47 gpm (1.78 lpm)	.57 gpm (2.15 lpm)
FLOW RATE INCREASE			
0%	26%	52%	84%

PREMIUM
REVERSIBLE TIPS

- The best overall performing tip in the industry
- Fan pattern stays wider longer
- An orifice that outlasts competitive tips delivering consistent film thickness and less wasted paint
- Fits all Titan and most other industry spray gun guards



High Pressure Tips 696-XXX

FAN PATTERN WIDTH			ORIFICE SIZE (INCHES)													
	INCHES	MM	0.011	0.013	0.015	0.017	0.019	0.021	0.023	0.025	0.027	0.031	0.035	0.037	0.039	0.043
	4–6	102–152	211	213												
	6–8	152–203			315	317	319	321	323	325						
	8–10	203–254			415	417	419									
	10–12	254–305			515	517	519	521	523	525	527	531	535	537		543
	12–14	305–356									627					
	14–16	356–406						721								
	16–18	406–457											835		839	
	18–20	457–508							923							
	Flow (gpm)	---	0.13	0.18	0.24	0.31	0.39	0.47	0.57	0.67	0.78	1.03	1.32	1.40	1.64	1.99
	Flow (lpm)	---	0.45	0.68	0.91	1.17	1.47	1.78	2.15	2.53	2.95	3.89	4.99	5.29	6.20	7.52

Maximum Working Pressure: 7700 psi (53.1 MPa)

Line Striping Tips 697-XXX

FAN PATTERN WIDTH			ORIFICE SIZE (INCHES)							
	INCHES	MM	0.013	0.015	0.017	0.019	0.021	0.023	0.025	0.027
	2	51		215	217	219				
	4	102	413	415	417	419	421	423		427
	6	152		615	617	619	621			
	8–10	203–254					821	823		
	Flow (gpm)	---	0.18	0.24	0.31	0.39	0.47	0.57	0.67	0.78
	Flow (lpm)	---	0.68	0.91	1.17	1.47	1.78	2.15	2.53	2.95

Maximum Working Pressure: 5000 psi (34.5 MPa)

Flow rates are calculated at 2000 psi with water.

HEA™
HIGH EFFICIENCY TIPS

Revolutionary Low Pressure Technology

- Optimized to spray all architectural paints and coatings at 1000 psi at production speed
- Decreases overspray up to 55% allowing contractors to spray more
- Less pressure equals less stress extending pump life and extending time between repacks
- Two times the life of a standard reversible tip
- Patented design

The Right Mix For Production 330-XXX

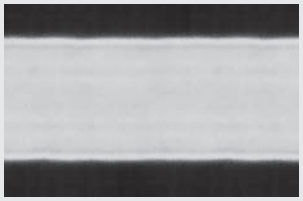
			ORIFICE SIZE (INCHES)					
FAN PATTERN WIDTH	INCHES	MM	0.011	0.013	0.015	0.017	0.019	0.021
	4–6	102–152	211	213				
	6–8	152–203	311	313				
	8–10	203–254	411	413	415	417		421
	10–12	254–305			515	517	519	521
	12–14	305–356			615	617	619	621
	Flow (gpm)	---	0.13	0.18	0.24	0.31	0.39	0.47
	Flow (lpm)	---	0.34	0.45	0.68	0.91	1.17	1.79

Maximum Working Pressure: 5000 psi (34.5 MPa)

Flow rates are calculated at 2000 psi with water.

HEA HIGH EFFICIENCY AIRLESS™

HIGHLY EFFICIENT FAN PATTERN



Latex paint through a standard 517 tip at 1,000 psi

Latex paint through a HEA 517 tip at 1,000 psi

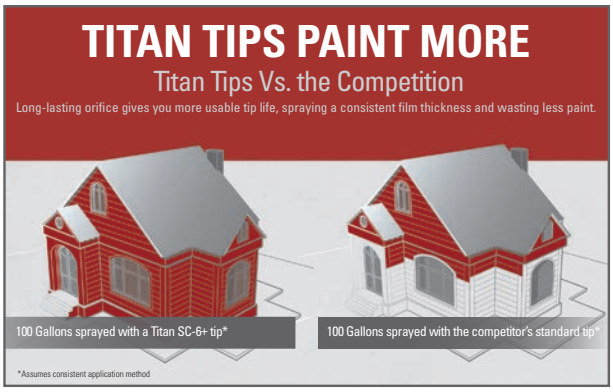
- Feathered edge provides consistent coverage
- More forgiving pattern that decreases runs and drips
- Less kickback when triggered providing more control and less overspray
- Fits all industry standard guards

Maximize the Performance of your HEA Tip

HEA Gauge Assembly Kit 580495

HIGH QUALITY
SC-6+ REVERSIBLE TIP

- The industry's longest-lasting orifice
- Up to 22% wider fan pattern
- Fits all Titan and most industry standard guards



SC-6+ Tips 662-XXX

FAN PATTERN WIDTH			ORIFICE WIDTH (INCHES)													
	INCHES	MM	0.007	0.009	0.011	0.013	0.015	0.017	0.019	0.021	0.023	0.025	0.027	0.029	0.031	0.035
	4–6	102–152	207	209	211	213	215	217	219							
	6–8	152–203		309	311	313	315	317	319	321		325				
	8–10	203–254		409	411	413	415	417	419	421						
	10–12	254–305			511	513	515	517	519	521	523	525			531	535
	12–14	305–356		609	611	613	615	617	619	621	623	625	627	629	631	635
	Flow (gpm)	---	0.05	0.09	0.13	0.18	0.24	0.31	0.39	0.47	0.57	0.67	0.78	0.91	1.03	1.32
	Flow (lpm)	---	0.19	0.34	0.45	0.68	0.91	1.17	1.47	1.78	2.15	2.53	2.95	3.44	3.89	4.99

Maximum Working Pressure: 5000 psi (34.5 MPa)

SC-6+ Fine Finishing Tips 671-XXX

FAN PATTERN WIDTH			ORIFICE SIZE (INCHES)			
	INCHES	MM	0.008	0.010	0.012	0.014
	4–6	102–152	208	210	212	214
	6–8	152–203	308	310	312	314
	8–10	203–254	408	410	412	414
	10–12	254–305		510	512	514
	12–14	305–356			612	
	Flow (gpm)	---	0.07	0.11	0.16	0.21
	Flow (lpm)	---	0.26	0.42	0.60	0.79

Maximum Working Pressure: 5000 psi (34.5 MPa)

Flow rates are calculated at 2000 psi with water.