




# CHOOSE THE MOST PRODUCTIVE SPRAY TIP FOR YOUR JOB

Choosing the right tip for the job will determine the quality of your finish and help you save time and money. Each Graco tip is 100% tested for flow rate to meet the tough standards of painting contractors and ensure the quality you've come to expect from Graco.

- Use smaller orifice sizes when applying light viscosity materials such as stains and lacquers
- Use larger orifice sizes for heavier viscosity coatings such as latex

MATERIALS RECOMMENDED TO BE SPRAYED	TIP SIZES
Oil-base stains, lacquers, and clear coats	0.009 - 0.013
Oil-base enamels and industrial enamels	0.013 - 0.015
Latex paint	0.015 - 0.019
Heavy latex and smooth elastomerics	0.021 - 0.025
Elastomerics and block fillers	0.025 - 0.039

	RAC X LTX	RAC X WIDERAC	RAC X LOW PRESSURE	RAC X FINE FINISH	RAC 5	RAC 5 FOR LINELAZER	RAC XHD
Part Number	LTXxxx	WRxxxx	LPxxx	FFLPxxx	286xxx	LL5xxx	XHDxxx
Unique Feature	Longest lasting fan pattern	Complete job in half the time	Less overspray and softer edges	Finer atomization and softer edges	Good fan pattern and spray quality	Designed for LineLazer	High-pressure applications
Pressure	4050 psi (280 bar, 28.0 MPa)	4050 psi (280 bar, 28.0 MPa)	4050 psi (280 bar, 28.0 MPa)	4050 psi (280 bar, 28.0 MPa)	4050 psi (280 bar, 28.0 MPa)	4050 psi (280 bar, 28.0 MPa)	7250 psi (500 bar, 34.5 MPa)
High-Production Application	●	●	●			●	●
Residential, Commercial, Industrial	●	●	●	●	●		●
Cabinetry, Woodworking, Fine Finish				●			
							
	<b>RAC X (BLUE)</b>				<b>RAC 5 (ORANGE)</b>		<b>RAC XHD (GRAY)</b>
Part Number	246215		246437		234161	243263	XHD001
Thread Size	7/8 in (22 mm)		11/16 in (17.5 mm)		7/8 in (22 mm)	11/16 in (17.5 mm)	7/8 (22 mm)

## TIP SELECTION: UNDERSTAND THE NUMBERS

### EXAMPLE: RAC X LTX517

The letters (LTX) represent the Graco tip style

- LTX = Latex
- WRX =
- LP = Low Pressure
- FFLP = Fine Finish Low Pressure
- XHD = Extreme Heavy Duty



The three digits (517) represent tip size (fan and orifice) and indicate the amount of paint that flows through the tip.

The **first digit** is half of the fan width (#5 x 2 = 10 in fan width)

**517**

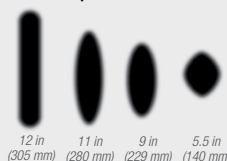
The **last two digits** are the size of the tip opening in thousandths of an inch

Your actual flow rate will depend on your spraying pressure and the material you are using (high pressure equals more flow; heavier paints equals less flow).

### WORN TIPS COST TIME AND MONEY

- A worn tip uses more paint
- Produces uneven coverage and inconsistent mil build
- Reduces production—requires more passes
- Results in a poor quality finish

Tip Wear Chart



If using a worn tip, on average you will spray 25% more paint and 20% in additional labor.

# RAC SWITCHTIPS

The quality of your work is only as good as the quality of your finish. Graco's superior RAC SwitchTips are built to the highest standards and designed to consistently produce the best finish in the industry, every time.

- Maximize your results and improve the quality of your work
- 100% tested for flow rate
- Available in a wide range of sizes for different materials
- Specific color coding for each application spraying all day



## LOW PRESSURE (LP) AND FINE FINISH LOW PRESSURE (FFLP) RAC X SWITCHTIPS

- Less prep and cleanup time
- Less mess with less overspray
- Easiest pattern overlap
- Reduced maintenance—up to 2X life
- 46 different sizes for large surface and fine finish applications
  - LP for walls, ceilings, and floors
  - FFLP for fine finish applications



## RAC X PREMIUM QUALITY SWITCHTIPS

- For indoor and outdoor residential painting jobs and commercial or industrial jobs
- 107 RAC X Switchtip sizes for every application
- Longest lasting fan pattern for the highest quality finish
- Available in the most common tip sizes



## RAC 5 SWITCHTIPS

- For residential and commercial applications
- Standard, proven tip technology
- Economical tip choice



## LINELAZER RAC 5 SWITCHTIPS

- Creates clean, laser-sharp lines with no fuzzy edges or thin spots
- Designed specifically for parking lots, roads, warehouse floors, crosswalks, and athletic fields
- Sprays heavy water-based to thin alkyd traffic paints
- Ensures consistent thickness from edge to edge, less overspray, and long-lasting lines



## XHD RAC SWITCHTIPS

- Recommended for King® and Xtreme™ sprayers
- Compatible with XTR-7 and XTR-5 airless spray guns
- Interchangeable with HD guards and tips




## RAC X WIDERAC SWITCHTIPS

- Spray 2X the area in half the time
- Ideal for high production and new construction
- Ensures proper mil build
- Covers the same area in 3 passes and in half the time!




### RAC X SWITCHTIPS (LTXXXX)



FAN WIDTH	IN	MM	.007	.009	.011	.013	.015	.017	.019	.021	.023	.025	.027	.029	.031	.033	.035	.037	.039	.041	.043	.045	.051	.055	.061	.065	.071
	2-4	(51-102)		109	111		115																				
4-6	(102-152)	207	209	211	213	215	217	219	221		225	227			231		235										
6-8	(152-203)		309	311	313	315	317	319	321	323	325	327	329	331			335										
8-10	(203-254)		409	411	413	415	417	419	421	423	425	427	429	431	433	435		439	441	443	445	451	455				
10-12	(254-305)		509	511	513	515	517	519	521	523	525	527	529	531	533	535	537	539	541	543	545	551	555	561			
12-14	(305-356)			611	613	615	617	619	621	623	625	627	629	631	633	635	637	639	641	643	645	651	655	661	665	671	
14-16	(356-406)									721	723						735										
16-18	(406-XXX)									821					831	833	835										
Flow Rate (gpm)		.05	.09	.12	.18	.24	.31	.38	.47	.57	.67	.77	.90	1.03	1.17	1.31	1.47	1.63	1.8	1.98	2.17	2.79	3.25	4.0	4.53	5.41	
Flow Rate (lpm)		.20	.33	.49	.69	.91	1.17	1.47	1.79	2.15	2.54	2.96	3.42	3.90	4.42	4.98	5.56	6.18	6.83	7.51	8.23	10.57	12.29	15.12	17.17	20.48	

### WIDERAC RAC X SWITCHTIPS (WRXXXX)




FAN WIDTH	IN	MM	.021	.023	.025	.027	.029	.031	.033	.035	.037	.039
	24	(610)	1221	1223	1225	1227	1229	1231	1233	1235	1237	1239
Flow Rate (gpm)		.47	.57	.67	.77	.90	1.03	1.17	1.31	1.47	1.63	
Flow Rate (lpm)		1.79	2.15	2.54	2.96	3.42	3.90	4.42	4.98	5.56	6.18	

#### WideRAC Conversion

RAC 5 OR RAC X	WIDERAC
415 or 515	1221 or 1223
417 or 517	1223 or 1225
419 or 519	1225 or 1227
421 or 621	1229 or 1231
523 or 623	1233 or 1235
525 or 625	1235 or 1237

When you use WideRAC, be sure to increase the orifice size of the tip to ensure the same mil build and rate of application (arm speed). Also, make sure your airless sprayer can support the larger tip size.

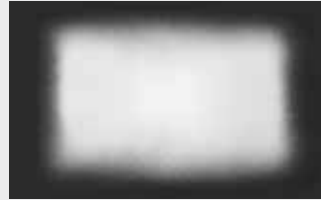
### FINE FINISH LOW PRESSURE RAC X SWITCHTIPS (FFLPXXX)



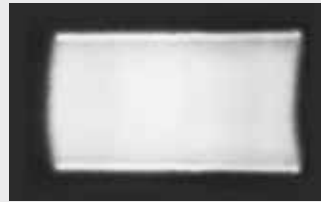
FAN WIDTH	IN	MM	.008	.010	.012	.014	.016
	2-4	(51-102)	108	110	112		
4-6	(102-152)	208	210	212	214		
6-8	(152-203)	308	310	312	314		
8-10	(203-254)		410	412	414		
10-12	(254-305)		510	512	514	516	
12-14	(305-356)					616	

Lowering spray pressure can reduce flow in some materials. Increase tip orifice size to maintain speed and material flow if needed.

### LATEX WALL PAINT AT HALF THE TYPICAL PRESSURE




FFLP PRODUCES A SUPERIOR FINISH




OTHER TIPS PRODUCE TAILS AT SAME PRESSURE

### LOW PRESSURE RAC X SWITCHTIPS (LPXXX)



FAN WIDTH	IN	MM	0.013	0.015	0.017	0.019	0.021	0.023	0.025	0.027	0.029	0.031
	6-8	(152-203)	313	315								
8-10	(203-254)		415	417	419	421	423	425				
10-12	(254-305)		515	517	519	521	523	525	527			
12-14	(305-356)			617	619	621	623	625	627	629	631	
14-16	(356-406)					723	725		729	731		

### RAC 5 SWITCHTIPS (286XXX)



FAN WIDTH	IN	MM	.007	.009	.011	.013	.015	.017	.019	.021	.023	.025	.027	.029	.031	.033	.035	.039	.043	.045	.051	.055	.063	.065
	2-4	(51-102)		109	111	113	115		119	121														
4-6	(102-152)	207	209	211	213	215	217	219	221	223	225						235							
6-8	(152-203)	307	309	311	313	315	317	319	321	323	325	327			331									
8-10	(203-254)		409	411	413	415	417	419	421	423	425	427	429			433	435	439	443		451	455		
10-12	(254-305)		509	511	513	515	517	519	521	523	525	527	529	531	533	535		543			551	555	563	
12-14	(305-356)		609	611	613	615	617	619	621	623	625	627	629	631	633	635			645		655		665	
14-16	(356-406)									721	723	725		729			735							
16-18	(406-XXX)					815	817	819	821				827		831	833	835							
18-20	(457-508)						917										935							
FLOW RATE (GPM)		.05	.09	.12	.18	.24	.31	.38	.47	.57	.67	.77	.90	1.03	1.17	1.31	1.63	1.98	2.17	2.79	3.25	4.26	4.53	
FLOW RATE (LPM)		.20	.33	.49	.69	.91	1.17	1.47	1.79	2.15	2.54	2.96	3.42	3.90	4.42	4.98	6.18	7.51	8.23	10.57	12.29	16.13	17.17	

**Disclaimer:**  
Flow rate calculated based on water at 2000 psi (138 bar, 13.8 MPa). Paints with higher viscosity will decrease flow rate.

**Examples:**  
For a tip with .015 orifice and a 6 in (152 mm) pattern, order LTX315. Fan width is measured at 12 in (305 mm) from the surface.  
For LineLazer: for a tip with .015 orifice and a 4 in (102 mm) pattern, order LL5215. Fan width is measured at 6 in (152 mm) from the surface.

### RAC 5 SWITCHTIPS (FOR LINELAZER) (LL5XXX)



	IN	MM	.013	.015	.017	.019	.021	.023	.025	.027	.029	.031	.033	.035	.039	.055	
FAN WIDTH	2	(51)	213	215	217	219											
	4	(102)		315	317	319	321	323	325	327	329	331	333	335			355
	4-8	(102-204)			417	419	421	423	425	427	429	431		435			
	8-12	(204-305)					621	623	625	627	629	631		635	639		
	FLOW RATE (GPM)		.18	.24	.31	.38	.47	.57	.67	.77	.90	1.03	1.17	1.31	1.63	3.25	
	FLOW RATE (LPM)		.69	.91	1.17	1.47	1.79	2.15	2.54	2.96	3.42	3.90	4.42	4.98	6.18	12.29	

### XHD RAC SWITCHTIPS (XHDXXX)



	IN	MM	.007	.009	.011	.013	.015	.017	.019	.021	.023	.025	.027	.029	.031	.033	.035	.037	.039	.041	.043	.045	.047	.049	
FAN WIDTH	2-4	(51-102)	107	109	111	113	115	117	119	121															
	4-6	(102-152)		209	211	213	215	217	219	221		225	227	229	231		235		239						
	6-8	(152-203)	307	309	311	313	315	317	319	321	323	325	327	329	331	333	335	337	339	341	343	345	347		
	8-10	(203-254)		409	411	413	415	417	419	421	423	425	427	429	431	433	435	437	439	441	443	445	447	449	
	10-12	(254-305)		509	511	513	515	517	519	521	523	525	527	529	531	533	535	537	539	541	543	545	547	549	
	12-14	(305-356)		609	611	613	615	617	619	621	623	625	627	629	631	633	635	637	639	641	643	645	647	649	
	14-16	(356-406)			711	713	715	717	719	721	723	725	727	729	731	733	735	737	739	741	743	745	747	749	
	16-18	(406-XXX)				813	815	817	819	821	823	825	827	829	831	833	835	837	839	841	843			847	
	18-20	(457-508)									923		927		931	933	935	937	939						
	FLOW RATE (GPM)		.05	.09	.12	.18	.24	.31	.38	.47	.57	.67	.77	.90	1.03	1.17	1.31	1.47	1.63	1.8	1.98	2.17	2.37	2.58	
FLOW RATE (LPM)		.20	.33	.49	.69	.91	1.17	1.47	1.79	2.15	2.54	2.96	3.42	3.90	4.42	4.98	5.56	6.18	6.83	7.51	8.23	8.98	9.76		

	IN	MM	.051	.053	.055	.057	.059	.061	.063	.065	.067	.069	.071	.075	.081
FAN WIDTH	2-4	(51-102)													
	4-6	(102-152)													
	6-8	(152-203)	351		355										
	8-10	(203-254)	451		455		459	461	463	465	467		471	475	481
	10-12	(254-305)	551	553	555	557		561		565	567		571	575	
	12-14	(305-356)	651		655	657	659	661	663	665	667	669	671	675	
	14-16	(356-406)	751	753	755			761			767		771		
	16-18	(406-XXX)	851		855			861	863		867				
	18-20	(457-508)													
	FLOW RATE (GPM)		2.79	3.05	3.25	3.49	3.74	4.0	4.26	4.53	4.82	5.11	5.41	6.04	7.04
FLOW RATE (LPM)		10.57	11.41	12.29	13.20	14.14	15.12	16.13	17.17	18.24	19.34	20.48	22.85	26.66	

### FINE FINISH FLAT TIPS (163XXX)



	IN	MM	.008	.010	.012	.014	.016	.018	.020	.022	.024	.026	.028	.030	.032
FAN WIDTH	2-4	(51-102)	108	110											
	4-6	(102-152)	208	210	212	214	216	218			224				232
	6-8	(152-203)		310	312	314	316	318	320	322	324				
	8-10	(203-254)	408	410	412	414	416	418	420		424	426	428	430	432
	10-12	(254-305)		510	512	514	516	518	520	522	524	526	528	530	
	12-14	(305-356)		610	612	614	616	618	620	622	624	626	628		
	14-16	(356-406)			712	714	716	718				726			
	16-18	(406-XXX)				814	816	818	820	822	824	826	828		832
	18-20	(457-508)			912	914		918		922	924	926			
	FLOW RATE (GPM)		.07	.11	.15	.21	.27	.35	.43	.52	.62	.73	.84	.97	1.1
FLOW RATE (LPM)		.26	.41	.59	.80	1.04	1.32	1.63	1.97	2.34	2.75	3.19	3.66	4.16	



### CONTRACTOR FLAT TIPS (269XXX)



	IN	MM	.011	.013	.015	.017	.019	.021	.023	.025	.027	.029	.031	.035
FAN WIDTH	4-6	(102-152)	211	213	215	217	219			225	227			
	6-8	(152-203)	311	313	315	317	319	321	323	325	327			
	8-10	(203-254)	411	413	415	417	419	421	423	425	427			435
	10-12	(254-305)	511	513	515	517	519	521	523	525	527		531	
	12-14	(305-356)		613	615	617	619	621	623	625	627		631	635
	14-16	(356-406)			715	717	719	721		725				
	16-18	(406-XXX)			815		819	821			827	829	831	
	18-20	(457-508)								925				
	Flow Rate (gpm)		.12	.18	.24	.31	.38	.47	.57	.67	.74	.90	1.03	1.31
	Flow Rate (lpm)		.49	.69	.91	1.17	1.47	1.79	2.15	2.54	2.96	3.42	3.90	4.98

### TIP GASKETS AND SEAL KITS

Compatible with most fluids; easy installation without tools.

PART #	DESCRIPTION
246453	2464RAC X OneSeal – 5 pack. Use only with RAC X SwitchTip and Guard
243281	RAC 5 OneSeal – 5 pack. Use only with RAC 5 SwitchTip and Guard
17P501	RAC X FF LP OneSeal – 5 pack. Use with RAC X FF LP SwitchTip and Guard
248936	RAC X Solvent Seal Kit – 5 pack. Use with RAC X SwitchTip and Guard
17P502	RAC X FF LP Solvent Seal Kit – 5 pack. For use with RAC X FF LP SwitchTip and Guard
224081	RAC 5 Solvent Gasket and Seat – 5 pack. Use only with RAC 5 SwitchTip and Guard
223373	Thin Tip Gasket – 25 pack
223374	Thick Tip Gasket – 25 pack. Use with tip extensions
114049	O-Ring – Use with tip gaskets to securely hold in place

Charts indicate the SwitchTips orifice size in inches.