

# Smooth Bore & Deluge Tips

For maximum reach, smooth bore tips create concentrated waterflow for use with either handlines or monitors while using lower pressures of 50 or 80 psi. Elkhart offers a wide variety of discharge sizes to suit any need. Additionally, Elkhart's stacked tips allow you to customize the smooth bore to meet your needs in the field.



# HANDLINE NOZZLES



SMOOTH BORE & DELUGE TIPS

HANDLINE NOZZLES

1-29

## SMOOTH BORE SINGLE TIP

Base Size	AVAILABLE DISCHARGE DIAMETER																				FINISH				DIMENSIONS		MODEL	FIGURE				
	GPM @ 50 PSI										GPM @ 80 PSI										Brass	Chrome	Elk-O-Lite®	Slug	w/bumper	Length (Inches)			Weight (Lbs.)			
	3	13	21	29	52	81	99	118	159	184	209	237	265	326	500	596	700	813	935	1063										1347	1665	2400
1"	•	•	•	•	•																s	o			•	4.50	1.0	S-185-B				
1.5"																								s	o			•	4.75	1.0	185-A	2
																										s	•	•	4.50	1.50	185-B	3
																										s		•	2.625	0.75	186-A	1
																										s		•	4.50	0.563	187-A	4
																										s		•	7.00	0.875	188-A	5
																										s		•	10.0	0.68	187-CAF	6
2.5"																							s	o			•	9.0	3.625	181	7	
3.5"																									s		•	9.0	1.625	181-A		
																									s		•	9.0	7.125	181-3		
																									s		•	12.0	4.0	181-3A	8	

Key s = standard o = option

## SMOOTH BORE STACKED TIP

Base Size	AVAILABLE 1ST DISCHARGE				AVAILABLE 2ND DISCHARGE				AVAILABLE 3RD DISCHARGE				AVAIL. 4TH DISCHARGE	FINISH				DIMENSIONS		Model	Figure										
	1 1/8"		1"		1 1/8"		1 1/4"		1 1/2"		1 3/4"		2"	Brass	Chrome	Elk-O-Lite®	Leader Threading*	Length (Inches)	Weight (Lbs.)												
	GPM 50 PSI	GPM 80 PSI	GPM 50 PSI	GPM 80 PSI	GPM 50 PSI	GPM 80 PSI	GPM 50 PSI	GPM 80 PSI	GPM 80 PSI																						
1.5"	•																	6.625	0.688	ST-185-A	9										
		•																7.625	0.875	ST-185A-IFD											
			•												s			9.0	4.375	ST-190-B											
				•														9.0	1.125	ST-190-BA											
2.5"															s	o		14.0	7.25	ST-191											
															s	o		10.75	4.0	ST-191-1											
																		10.50	2.0	ST-191-A											
3.5"																		9.625	1.675	ST-197-A	12										
																		12.875	2.125	ST-194	10										
																									s		•	16.75	4.0	ST-195	11

\* 1.5 male for line extension

## OPTIONS

### THREADS







All base threads are NHT unless otherwise specified. See index T-12 for optional base threads.





### PRESSURE

All pressure specified for smooth bores at pitot pressure.

# HANDLINE NOZZLES

SMOOTH BORE & DELUGE TIPS

<b>Figure 1</b>	<b>SLUG</b> 	<b>186-A</b> <ul style="list-style-type: none"><li>• Leader threading</li></ul>	<i>Fig. 1</i>
<b>Figure 2</b>	<b>SINGLE SMOOTH BORE TIPS - HANDLINE</b> 	<b>185-A</b> <ul style="list-style-type: none"><li>• Leader threading</li><li>• Bumper</li></ul>	<i>Fig. 2</i>
<b>Figure 3</b>		<b>185-B</b> <ul style="list-style-type: none"><li>• Bumper</li></ul>	<i>Fig. 3</i>
<b>Figure 4</b>		<b>187-A</b> <ul style="list-style-type: none"><li>• More compact than other tips</li></ul>	<i>Fig. 4</i>
<b>Figure 5</b>		<b>188-A</b> <ul style="list-style-type: none"><li>• Longer tip for improved stream quality</li><li>• Bumper</li></ul>	<i>Fig. 5</i>
<b>Figure 6</b>	<b>SINGLE SMOOTH BORE TIPS - HANDLINE/DELUGE</b> 	<b>187-CAF</b> <ul style="list-style-type: none"><li>• For applying CAF</li></ul>	<i>Fig. 6</i>

<b>Figure 7</b>	<b>SINGLE SMOOTH BORE TIPS - DELUGE</b> 	<b>181</b> <ul style="list-style-type: none"><li>• Classic deluge tip</li></ul>	<i>Fig. 7</i>
<b>Figure 8</b>		<b>181-3A</b> <ul style="list-style-type: none"><li>• Built-in stream shaper</li></ul>	<i>Fig. 8</i>
<b>Figure 9</b>	<b>STACKED SMOOTH BORE TIPS - HANDLINE</b> 	<b>ST-185-A</b>	<i>Fig. 9</i>
<b>Figure 10</b>	<b>STACKED SMOOTH BORE TIPS - MASTER STREAM</b> 	<b>ST-194</b> <ul style="list-style-type: none"><li>• Leader threading</li></ul>	<i>Fig. 10</i>
<b>Figure 11</b>		<b>ST-195</b> <ul style="list-style-type: none"><li>• Leader threading</li></ul>	<i>Fig. 11</i>
<b>Figure 12</b>		<b>ST-197-A</b> <ul style="list-style-type: none"><li>• Leader threading</li></ul>	<i>Fig. 12</i>