

# 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.)	
	3/8"	1/4"	5/16"	3/8"	1/2"	5/8"	11/16"	3/4"	7/8"	15/16"	1"	1 1/16"	1 1/8"	1 1/4"	1 1/2"	1 3/4"	1 7/8"	2"	2 1/4"	2 1/2"										3"
1"	•	•	•	•	•																s	o			•	4.50	1.0	S-185B		
1.5"																								s		•	4.75	1.0	185-A	2
																									s	•	4.50	1.50	185-B	3
																									s	•	2.625	0.75	186A	1
																									s	•	4.50	0.563	187A	4
																									s	•	7.00	0.875	188A	5
																									s	•	10.0	0.68	187CAF	6
2.5"																								s	o		9.0	3.625	181	7
																									s		9.0	1.625	181A	
3.5"																								s	o		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																														
	3/4"	15/16"	1"	1 1/8"	1 1/4"	1 1/2"	1 3/4"	1 7/8"	2"	2 1/4"	2 1/2"	2 3/4"	3"	GPM 50 PSI	GPM 80 PSI	GPM 50 PSI			GPM 80 PSI	GPM 50 PSI	GPM 80 PSI	GPM 80 PSI	Brass	Chrome	Elk-O-Lite®	Leader Threading*	Length (Inches)	Weight (Lbs.)																				
	118	184	209	265	326	596	813	1063	1665	52	81	209	265	413	596	813			1347	118	209	265							500	596	1063	500																
1.5"	•	•																																							s		6.625	0.688	ST-185A	9		
																																									s	•	7.625	0.875	ST-185A-IFD			
																																								s				9.0	4.375	ST-190B		
																																										s	•	9.0	1.125	ST-190BA		
2.5"																																										s	o		14.0	7.25	ST-191	
																																										s	o		10.75	4.0	ST-191-1	
																																											s		10.50	2.0	ST-191A	
																																											s		9.625	1.675	ST-197A	12
3.5"																																											s		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-13 for optional base threads.







### PRESSURE

All pressure specified for smooth bores at pitot pressure.

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## SMOOTH BORE & DELUGE TIPS

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

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