

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

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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"	3/16"	1/8"	1/2"	3/8"	1/16"	3/4"	7/8"	15/16"	1"	1 1/16"	1 1/8"	1 1/4"	1 1/2"	1 3/4"	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	
																						o		•	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		
3.5"																					s			9.0	1.625	181A			
																						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						
	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.)								
	1/16"	1"	1 1/8"	1 1/4"	1 1/2"	1 3/4"	2"	2 1/2"	1/2"	1"	1 1/8"	1 1/4"	1 1/2"									1 3/4"	2"	1 3/4"			
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		
3.5"																					s		9.625	1.675	ST-197A	12	
																					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-12 for optional base threads.

PRESSURE

All pressure specified for smooth bores at pitot pressure.

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

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