

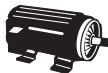











































SELECTOR GUIDE

		AVAILABLE BASE			PRODUCT	DESCRIPTION	MATERIAL			"QUICK-KEY"
FIXED	5000E	1.5	2.5	3.5	 <i>Page 6-3</i>	<ul style="list-style-type: none">Combination nozzle12 or 24 VDC enclosed and sealed motor	Brass	Composite	Elk-O-Lite®	 
		•								
		Available GPM (LPM) 15-475 (57-1798)								
AUTOMATIC	SM-10FE	1.5	2.5	3.5	 <i>Page 6-3</i>	<ul style="list-style-type: none">Simplifies fireground hydraulicsMaintains effective flow stream12 or 24 VDC enclosed and sealed motor	Brass	Composite	Elk-O-Lite®	 
		•								
		Available GPM (LPM) 20-120 (76-454)								
FIXED/SELECTABLE	R.A.N.	1.5	2.5	3.5	 <i>Page 6-5</i>	<ul style="list-style-type: none">Designed for use with R.A.M.Integral stream shaper1/4 turn stream adjustmentOptional oscillating configuration available	Brass	Composite	Elk-O-Lite®	  
			•							
		Available GPM (LPM) 250-500 (946-1893)								
AUTOMATIC	X-STREAM®	1.5	2.5	3.5	 <i>Page 6-6</i>	<ul style="list-style-type: none">Simplifies fireground hydraulicsMaintains effective flow streamCalibrated at lower pressures - 75 & 80 PSI	Brass	Composite	Elk-O-Lite®	     
			•	•						
		Available GPM (LPM) 300-2000 (1136-7571)								
SELECTABLE	6000	1.5	2.5	3.5	 <i>Page 6-9</i>	<ul style="list-style-type: none">Designed for use with Sidewinder EXMMaintains effective flow streamMotor enclosed and sealed	Brass	Composite	Elk-O-Lite®	 
		•	•							
		Available GPM (LPM) 15-700 (60-2700)								
FOAM EXPANSION TUBES		1.5	2.5	3.5	 <i>Page 6-10</i>	<ul style="list-style-type: none">Quick-snap connectionComposite or metal construction	Brass	Composite	Elk-O-Lite®	 
			•	•						
		Available GPM (LPM)								

	AVAILABLE BASE	PRODUCT	DESCRIPTION	MATERIAL		"QUICK-KEY"
				Brass	Composite Elk-O-Lite®	
FIXED	SELECT-O-STREAM® 1.5 2.5 3.5 Available GPM (LPM) 350-1000 (1325-3785)	 <i>Page 6-11</i>	<ul style="list-style-type: none"> Fully machined waterway for excellent stream quality Large handles for easy stream pattern management Constant Flow Nozzle 	•	•	  
SELECTABLE	SELECT-O-FLOW® 1.5 2.5 3.5 Available GPM (LPM) 300-1250 (1136-4732)	 <i>Page 6-13</i>	<ul style="list-style-type: none"> Large handles for easy stream pattern management Operator set flow and stream Selectable Flow Nozzle 	•	•	  
FIXED	MYSTERY 1.5 2.5 3.5 Available GPM (LPM) 350-2000 (1325-7571)	 <i>Page 6-14</i>	<ul style="list-style-type: none"> Created for Industrial applications Large handles for easy stream pattern management Low maintenance 	•		  
AUTOMATIC/FIXED	SELF-EDUCTING 1.5 2.5 3.5 Available GPM (LPM) 350-2000 (1325-7571)	 <i>Page 6-15</i>	<ul style="list-style-type: none"> Self-educting Class A and B foam 1/2%, 1%, 3%, or 6% proportioning Field-adjustable foam proportioning 	•	•	   
ADJUSTABLE/FIXED	FIXED SYSTEM 0.75 1.0 1.5 2.5 Available GPM (LPM) 5-1000 (20-3780)	 <i>Page 6-19</i>	<ul style="list-style-type: none"> Designed for use in fixed system applications Field-adjustable flow rate and fog pattern up to 120° 	•	•	

KEY:

											
Electrical Operation	Manual Operation	Remote Control Operation	Hydraulic Operation	Hazardous Location	Self-Educting Foam	Foam Compatible	Underwriters Laboratories	Twist Shut-off Available	Low Pressure Available	Conformity European	Factory Mutual



5000E & SM-10FE

MASTER STREAM

5000E & SM-10FE

- Created for the specific challenges, such as water flow limitations and protection needs, of wildland firefighting, dust abatement, de-icing, etc.
- Used in conjunction with smaller monitors such as the Sidewinder®
- Constant flow — straight stream, narrow fog (30°), or wide fog (90°) — with spinning teeth
- Either automatic or fixed flow nozzle type available
- Motor (12V or 24V DC available) totally enclosed and sealed
- Manual override standard
- Lightweight Elk-O-Lite® construction with hard anodized finish
- AFFF compatible

6-3



Base Size	AVAILABLE STANDARD FLOW RATES (Fixed) GPM (LPM)														STANDARD FLOW RANGE (Automatic) GPM (LPM)	TEETH		Effective Reach at Highest Flow (ft.)	Weight (Lbs.)	MODEL	FIGURE	
	15 (57)	30 (114)	45 (170)	60 (227)	75 (284)	95 (360)	125 (473)	150 (568)	175 (662)	200 (757)	250 (946)	350 (1325)	400 (1514)	475 (1798)	20 - 120 (76 - 454)	Spinning	None					
	PSI (BAR) 100 (6.89)																					
1.5"	•	•	•													•		85	3.1	5000-04	2	
				•	•	•	•	•								•		124	3.1	5000-14	2	
									•	•	•	•	•	•		•		150	3.1	5000-24	2	
															•		•	115	4.9	SM-10FE*	1	

* Suitable for de-icing / anti-icing use

5000E & SM10FE CONFIGURATIONS

Figure 1



Fig. 1

Figure 2



Fig. 2

Figures depict general product types only and are not intended to be inclusive of all product features.

OPTIONS

THREADS

All nozzles are NHT unless otherwise specified.
See index T-13 for optional base threads.



MASTER STREAM

R.A.N.™ – RAPID ATTACK NOZZLE

R.A.N.™

- Designed to operate in conjunction with the R.A.M. at high flows with lower pressure (rated for 500 gpm at 75 psi)
- Integral stream shaper reduces weight and bulk
- 2.5" constant flow nozzle – straight stream, narrow fog (30°), or wide fog (90°)
- Quick turn from straight stream to full fog
- Compatible with foam concentrate



Integral stream shaper



Elk-O-Lite® construction

Base Size	AVAILABLE STANDARD FLOW RATES	PRESSURE	FLOW TYPE		Oscillation	Effective Reach (Feet) @ 500 GPM	Weight (Lbs.)	MODEL	FIGURE
	GPM (LPM)		Fixed	Selectable					
2.5"	500 (1893)	75 (5.17)	•			180	3.2	3896	1
	250/350/500 (946/1325/1893)			•		180	3.6	3895	2
	500 (1893)		•		•	180	10.75	3890	3

OPTIONS

THREADS

All nozzles are NHT unless otherwise specified. See index T-13 for optional base threads.

Figure 1



Figure 2



Figure 3



X-Stream®

- Automatically adjusts to maintain effective stream and maximum reach at variable or reduced flows
- Calibrated at lower pressures — 70 and 85 psi — for better suitability to real world conditions
- Constant flow — straight stream, narrow fog (30°), or wide fog (90°) — with hydrodynamic vanes and hub for increased flow efficiency
- Excellent with AFFF or Class A foam applications
- Models available for use in hazardous locations and for gas mitigation
- Gas mitigation nozzle features wider (120°) fog pattern and smooth face tip (no teeth) for optimized water flow characteristics
- Electric motors and connectors are completely sealed, with manual overrides while manual models have large handles for easy stream pattern management
- Corrosion-resistant brass nozzles, for industrial applications, have satin brass finish while Elk-O-Lite® nozzles have a hard anodized finish



* Not available on gas mitigation model

MASTER STREAM







X-STREAM®

MASTER STREAM

6-7

Base Size	FLOW RANGES GPM (LPM)	PRESSURE PSI (BAR)	PATTERN CONTROL					MATERIAL		Effective Reach (Ft.)	Weight (Lbs.)	MODEL	FIGURE	FM APPROVED	
			Manual	ELECTRIC		HYDRAULIC	Brass	Elk-O-Lite®							
				STANDARD UNCLASSIFIED	CLASS 1 DIV 2										
									Hazardous Location 120V AC						Gas Mitigation 120V AC
2.5"	350-1000 (1325-3785)	100 (6.89) 75 (5.17)							•	-	9.0	SM-500E-HP	2		
									•	-	9.0	SM-500E	2		
			•						•	255	7.5	SM-1000	1		
									•	255	9.2	SM-1000E	2		
	350-1250 (1325-4732)	75 (5.17)							•	255	8.3	SM-1000H	3		
			•						•	271	7.5	SM-1250	1		
			•						•	271	20.6	SM-1250B	1	•	
									•	271	22.5	SM-1250BE	2		
									•	271	9.2	SM-1250E	2		
									•	271	8.3	SM-1250H	3		
									•	271	19.8	SM-1250HB	3		
			3.5"	350-1000 (1325-3785)	80 (5.51)	•						•	241	7.5	SM-1000
									•	241	9.2	SM-1000E	2		
									•	241	8.3	SM-1000H	3		
									•	241	27.6	SM-1000BE-HL	4		
350-1250 (1325-4732)	75 (5.17)	•							•	229	7.5	SM-1250	1		
		•							•	229	20.6	SM-1250B	1	•	
									•	229	22.5	SM-1250BE	2		
									•	270	27.6	SM-1250BE-HL	4	•	
									•	270	27.6	SM-1250BE-HLGM	5	•	
									•	229	9.2	SM-1250E	2		
									•	229	8.3	SM-1250H	3		
									•	229	19.8	SM-1250HB	3		
500-1500 (1893-5678)	70 (4.83)								•	240	10.5	SM-1500E	2		
		500-2000 (1893-7571)	80 (5.51)	•						•	300	9.2	SM-2000	1	
				•						•	300	24.7	SM-2000B	1	•
										•	300	26.6	SM-2000BE	2	
										•	320	32.0	SM-2000BE-HL	4	•
										•	180	32.0	SM-2000BE-HLGM	5	•
										•	300	10.5	SM-2000E	2	
										•	300	10.0	SM-2000H	3	
								•	300	24.8	SM-2000HB	3			

X-STREAM® CONFIGURATIONS

Figure 1	<p data-bbox="613 380 716 405">MANUAL</p>  <p data-bbox="716 726 781 751"><i>Fig. 1</i></p>
Figure 2	<p data-bbox="613 789 716 814">ELECTRIC</p>  <p data-bbox="716 1094 781 1119"><i>Fig. 2</i></p>
Figure 3	<p data-bbox="613 1157 748 1182">HYDRAULIC</p>  <p data-bbox="716 1514 781 1539"><i>Fig. 3</i></p>
Figure 4	<p data-bbox="483 1577 748 1602">HAZARDOUS LOCATION</p>  <p data-bbox="716 1913 781 1938"><i>Fig. 4</i></p>

Figures depict general product types only and are not intended to be inclusive of all product features.

PRODUCT HIGHLIGHTS

- Gas Mitigation nozzles are designed for use in Class 1, Division 2 fire suppression and protection applications — the nozzles have a specially designed face and wide fog pattern to support the containment of gas vapors. Most commonly, the nozzles are used in areas with hydrofluoric acid vapors.
- The smooth face of the nozzle has been specifically designed to create an unbroken fog pattern.
- The fog pattern has been enhanced to a full 120° to allow for better coverage.

OPTIONS

THREADS

All nozzles are NHT unless otherwise specified. See index T-13 for optional base threads.

Figure 5

GAS MITIGATION



Fig. 5



6000 SERIES

MASTER STREAM

6000

- Designed for optimal performance when used with the Sidewinder EXM
- Features electric actuators for precise pattern control from straight stream to wide fog
- 2.5" constant flow nozzle – straight stream, narrow fog (30°), or wide fog (90°)
- Offers ultra-wide flow range with quick-turn, locking, flow selector ring
- Compatible with foam concentrate



BASE SIZE	FLOW RATES GPM (LPM)	PRESSURE PSI (BAR)	Effective Reach (Feet) @ Highest Flow	Weight (Lbs.)	MODEL	FIGURE
1.5"	15/30/45/60/95/125/150/200/FLUSH (60/120/170/250/360/500/550/750/FLUSH)	100 (6.89)	124	4.7	6000-200E	3
2.5"	15/30/45/60/95/125/150/200/FLUSH (60/120/170/250/360/500/550/750/FLUSH)	100 (6.89)	124	4.7	6000-200E	1
	250/350/500/700/FLUSH (1000/1350/2000/2700/FLUSH)		190	5.8	6000-700E	2

Figure 1



Figure 2



Figure 3



Foam Expansion Tubes

Lightweight composite foam tubes are corrosion resistant and easy to handle with bases that snap securely onto the nozzle in seconds. The foam tubes are specifically designed to require no alteration of the nozzle itself for use. The base of the tube includes large air intakes; expansion rates are easily varied with nozzle pattern.



Compatible Nozzle Model	FOAM TUBE MODELS		
	251-6	252-8	253-9
R.A.N.™	•		
6000 Series	•		
HF – 350/350A/500/500A	•		
IMS – 350/500	•		
CJ – B/RC/B-RC	•		
SM – 1000/E/H		•	
SM – 1250/E/B/BE/H/HB		•	
SM – 1500E			•
SM – 2000/E/B/BE/H/HB			•
SM – 1000-HF / E-HF			•
SM – 2000-HF / E-HF			•
Foam Tube Details			
Length (Inches)	14.75	16.688	16.136
Weight (Lbs.)	3.0	6.3	7.15
Tube Base	Composite	Metal	Metal



SELECT-O-STREAM®

MASTER STREAM

Select-O-Stream®

- Constant flow nozzle — straight stream, narrow fog (30°), or wide fog (90°)
- Flow efficient with a fully machined waterway for excellent stream quality
- Elk-O-Lite® nozzles are hard anodized with chrome-plated trim
- Corrosion resistant brass nozzles have a satin brass finish
- Large handles allow for easy stream pattern management
- Grease zerk for easy lubrication of tip threads
- Heavy-duty protective rubber bumper
- AFFF compatible
- Available FM rated



Base Size	AVAILABLE STANDARD FLOW RATES GPM (LPM)				PATTERN CONTROL		TEETH	MATERIAL		CERT.	EFFECTIVE REACH (Ft.)		Weight (Lbs.)	MODEL	FIGURE
	350 (1325)	500 (1893)	750 (2839)	1000 (3785)	Direct Manual	Remote Control	Cut Metal	Brass	Elk-O-Lite®	FM Approved	At Lowest Flow	At Highest Flow			
		PSI (BAR) 100 (6.89)													
2.5"	•	•			•		•		•		150	173	5.5	CJ	1
	•	•			•		•	•		•	150	173	12.4	CJ-B	1
	•	•				•	•		•		150	173	7.3	CJ-RC	2
	•	•				•	•	•		•	150	173	14.5	CJ-B-RC	2
			•	•	•		•		•		238	263	6.5	CJN	1
			•	•	•		•	•		•	238	263	15.6	CJN-B	1
			•	•		•	•		•		238	263	8.5	CJN-RC	2
			•	•		•	•	•		•	238	263	17.8	CJN-B-RC	2
	•				•			•				150	10.8	IMS-350*	3
		•			•			•		•		173	10.8	IMS-500*	3
			•		•			•		•		238	13.1	IMS-750	4
				•	•			•		•		263	13.1	IMS-1000	4

* Wide Fog is 140°

SELECT-O-STREAM® CONFIGURATIONS

Figure 1  MANUAL <i>Fig. 1</i>	Figure 2  REMOTE <i>Fig. 2</i>
Figure 3  IMS-350 <i>Fig. 3</i>	Figure 4  IMS-1000 <i>Fig. 3</i>

OPTIONS

THREADS

All nozzles are NHT unless otherwise specified.
See index T-13 for optional base threads.

Figures depict general product types only and are not intended to be inclusive of all product features.

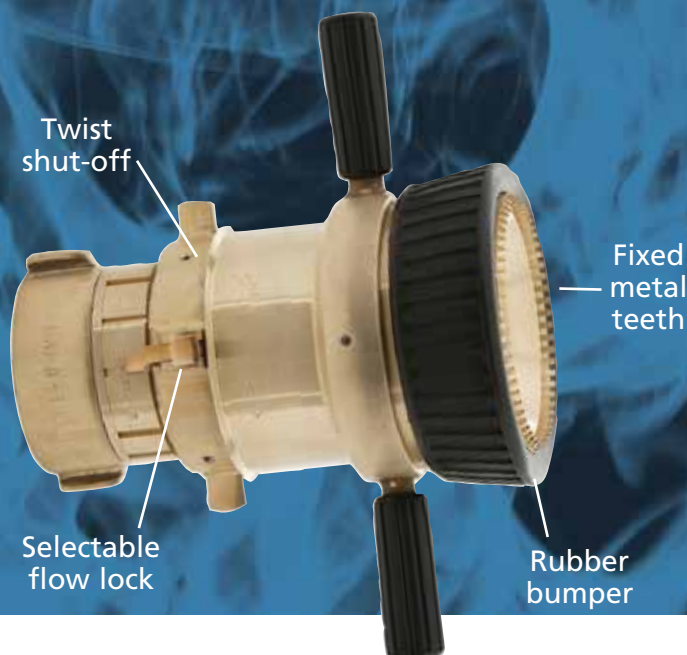


MASTER STREAM

SELECT-O-FLOW®

MASTER STREAM

Select-O-Flow®



- Selectable flow rate, changeable even during flowing conditions
- Constant flow nozzle — straight stream, narrow fog (30°), or wide fog (90°)
- Flow efficient with a fully machined waterway for excellent stream quality
- Construction:
 - Elk-O-Lite® nozzles are hard anodized with chrome-plated trim and rubber bumper
 - Corrosion resistant brass nozzles have a heavy-duty protective rubber bumper
- Low maintenance components
- AFFF compatible

6-13

Base Size	FLOW RATES	PRESSURE	MATERIAL		Effective Reach (Feet) @ Highest Flow	Weight (Lbs.)	MODEL	FIGURE	
	GPM (LPM)	PSI (BAR)	Brass	Elk-O-Lite®					
2.5"	300/550/750 (1136/2082/2839)	100 (6.89)		•	221	7.6	CSW	1	
	350/500/750/1000/1250 (1325/1893/2839/3785/4732)			•	350	10.0	CSW-L	1	
			•		350	21.4	CSW-LB	2	

SELECT-O-FLOW® CONFIGURATIONS

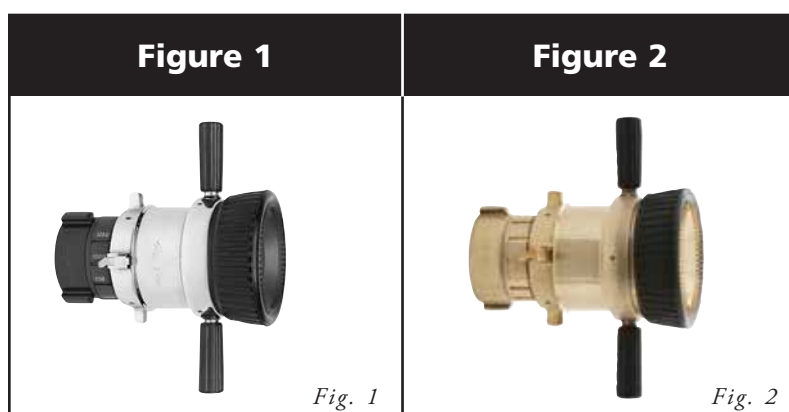


Fig. 1

Fig. 2

OPTIONS

THREADS

*All nozzles are NHT unless otherwise specified.
See index T-13 for optional base threads.*

Mystery®



- Original Master Stream fog nozzle, created for industrial applications
- Combination nozzle — straight stream, narrow fog (30°), or wide fog (90°)
 - The J and JN nozzles feature variable flow from shut-off to wide fog
 - The CJK nozzle is a constant flow nozzle
- Low maintenance components and convenient grease zerks

Base Size	AVAILABLE STANDARD FLOW RATES GPM (LPM)							Twist Shut-off	Effective Reach (Ft.)	Weight (Lbs.)	MODEL	FIG.
	350 (1325)	500 (1893)	1000 (3785)	1250 (4732)	1500 (5678)	1750 (6624)	2000 (7571)					
	PSI (BAR) 100 (6.89)											
2.5"	•	•						•	135	8.5	J	2
			•					•	170	9.3	JN	2
3.5"				•	•	•	•		325	22.3	CJK	1

MYSTERY® CONFIGURATIONS

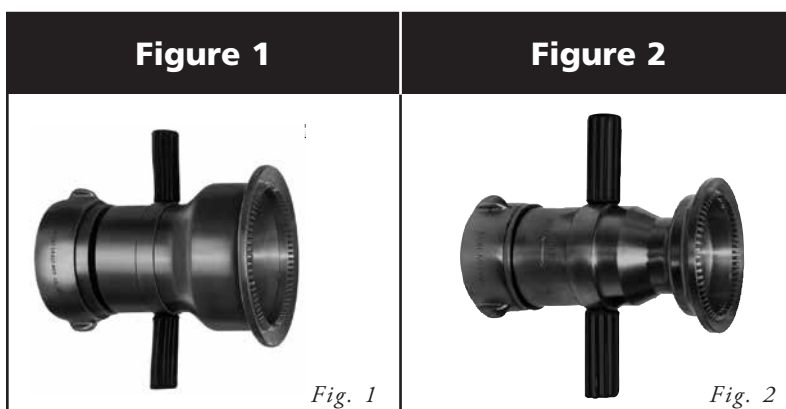


Fig. 1

Fig. 2

Figures depict general product types only and are not intended to be inclusive of all product features.

OPTIONS

THREADS

*All nozzles are NHT unless otherwise specified.
See index T-13 for optional base threads.*



SELF-EDUCTING

MASTER STREAM

Self-Educting

Self-Educting master stream nozzles turn any monitor into a foam station without the use of additional equipment and have been part of Elkhart's fire suppression arsenal for over 20 years. Elkhart is proud to have been one of the pioneers in the development of the Hydro-Foam® line of self-educting nozzles.

Some of the features of self-educting nozzles include:

- Designed specifically for use with Class A and B foam, including AFFF and fluoroprotein
- Field-adjustable foam proportioning with pre-set options
- Combination nozzle — include straight stream, narrow fog (30°), or wide fog (90°)

Since introduction, Elkhart has expanded the self-educting Master Stream nozzle line to include:

- Easy to use, original Hydro-Foam® nozzles of brass or Elk-O-Lite® construction
- X-Stream® nozzles that combine self-educting ability with the convenience of automatic metering

6-15

Foam pick-up hose
attachment inlet



Large handles
allow for easy
pattern management

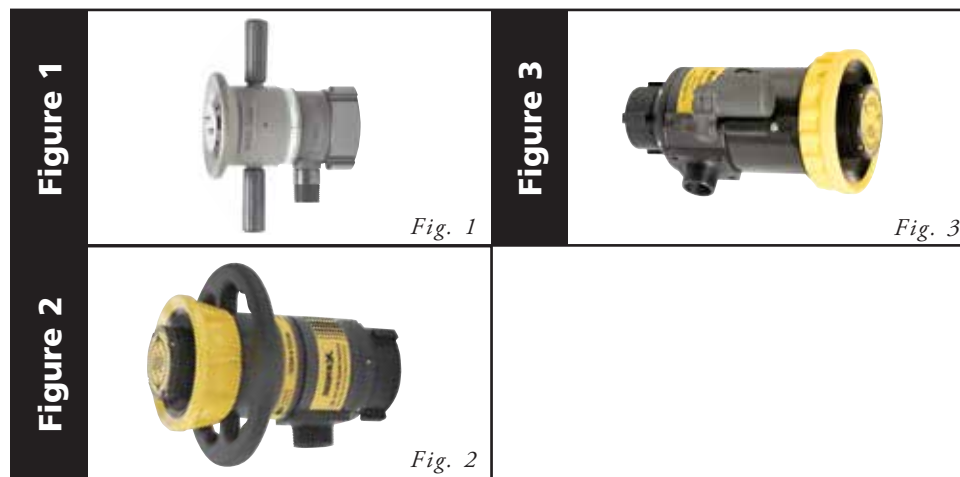


	NOZZLE FAMILY	
	X-Stream®	Hydro-Foam®
Flow Type	Automatic	Fixed
Description	High flow automatic nozzle	Original self-educing nozzle
Benefit	Optimizes use of concentrate and produces effective foam under a variety of conditions	Simple to use and flows well. Elk-O-Lite® version is lightweight and excellent for portable monitor use.
Foam Proportioning	Dual range, field selectable (SM-1000-HF and SM-1000E-HF) or fixed metering (SM-2000-HF and SM-2000E-HF)	Fixed metering via orifice insert

Base Size	FAMILY / FLOW RATE				FOAM PROPORTIONING						Electric	Certifications		MATERIAL / FINISH			Effective Reach (Ft.)	Weight (Lbs.)	MODEL	FIGURE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
	X-STREAM®/AUTOMATIC		HYDRO-FOAM®/FIXED		CONFIGURABLE				SELECTABLE			UL Listed	BRASS		Composite	Elk-O-Lite®																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
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KEY s = standard o = option
*Fog pattern is 80°

SELF-EDUCTING FOAM CONFIGURATIONS



OPTIONS

- SM-1000E-HF features an 8' pick-up tube
- SM-2000E-HF features an 8' pick-up tube

THREADS

All nozzles are NHT unless otherwise specified. See index T-13 for optional base threads.

Figures depict general product types only and are not intended to be inclusive of all product features.



SELF-EDUCTING NOZZLE ACCESSORIES



QUICK-CONNECT COUPLING

- The brass Quick-Connect Coupling is a convenient way of attaching/detaching pick-up hose
- Specify brass or chrome finish
- Length: 3.4"
- Weight: 1.2 lbs.

SHUT-OFF VALVE

- Quarter turn ball valve for positive shut-off of foam supply
- Attaches to foam inlet of nozzle
- Specify chrome or brass finish



METERING VALVE

- The quarter turn ball valve for instant proportioning change
- Available in 1% / 3% or 3% / 6% configurations
- Attached to foam inlet of nozzle
- Specify chrome or brass finish
- Length: 3"
- Weight: 1.3 lbs.



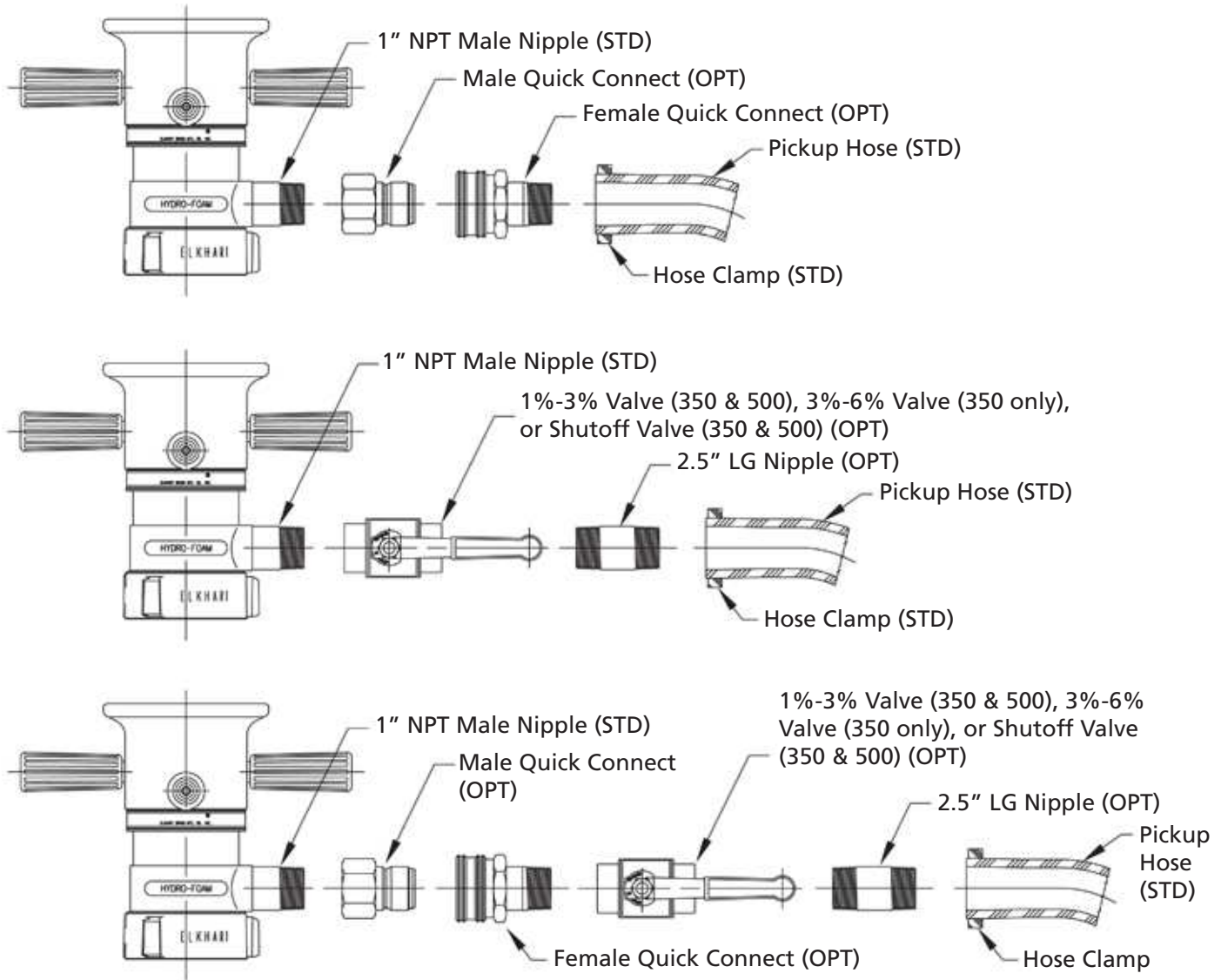
DRUM PICK-UP KIT

- Allows foam inlet of nozzle to be pre-connected to a 55 gallon drum of concentrate
- Kit 1 includes PVC pick-up tube with shut-off valve, brass vacuum breaker, and clear reinforced vinyl pick-up hose (8 feet)
- Kit 3 or Kit 4 includes PVC pick-up tube with shut-off valve only. Replaces non-valve pick-up tube that comes with nozzle.

COMPATIBLE ACCESSORIES

ITEM	FOAM NOZZLE			
	X-Stream®		Hydro-Foam®	
	SM-1000 HF	SM-2000 HF	350/A	500/A
Quick-connect			•	•
Shut-off Value with Quick-connect			•	•
1% / 3% Metering Valve with Quick-connect			•	•
3% / 6% Metering Valve with Quick-connect			•	•
Shut-off Valve			•	•
1% / 3% Metering Valve			•	•
3% / 6% Metering Valve			•	•
Drum Pick-up Kit 1			•	•
Drum Pick-up Kit 3	•			
Drum Pick-up Kit 4		•		

OPTIONAL HARDWARE FOR FOAM INLET LINE



NOTE: These illustrations show typical combinations of valves and fittings. Other combinations can be provided to satisfy customer needs.



FIXED SYSTEM

MASTER STREAM

Fixed System

Designed for use in fixed system applications. Adjustable nozzles can be pre-set at the factory or set in the field at time of installation. The fog pattern, which can be set up to 120°, can easily be set or adjusted at the job site.



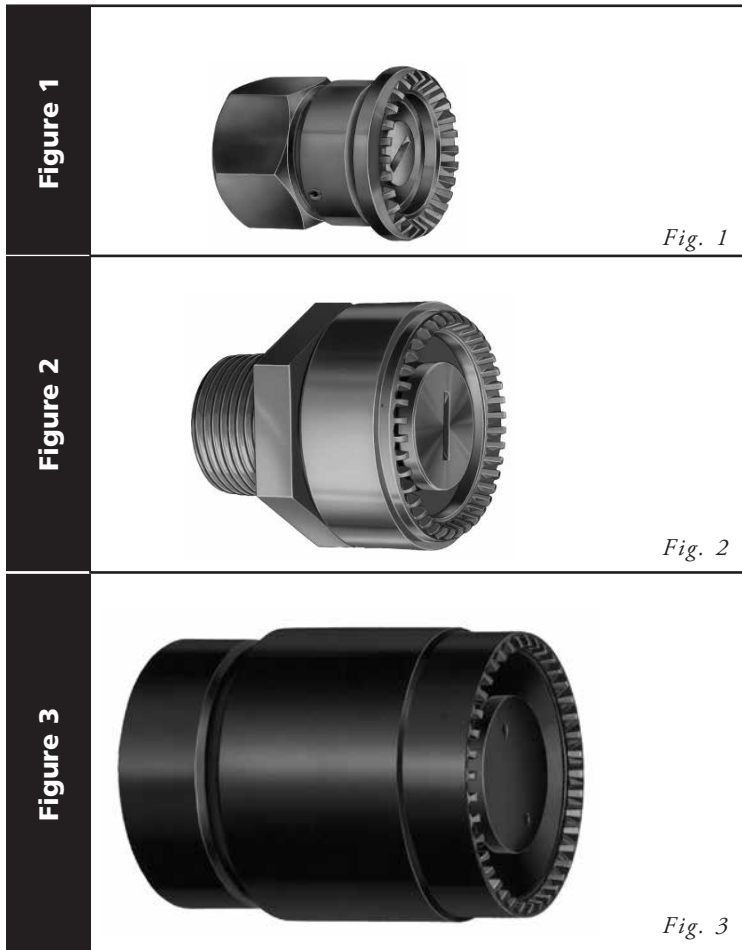
6-19

Base Size	ADJUSTABLE FLOW RATES GPM (LPM)			STANDARD FLOW RATES GPM (LPM)			INLET OPTIONS		MATERIAL		MODEL	FIGURE
	5-40 (20-150)	40-100 (150-380)	100-250 (380-850)	350 (1325)	500 (1890)	1000 (3780)	Male	Female	Brass	Elk-o-Lite®		
	PSI (BAR) 100 (6.89)											
0.75"	•						s	o	•		NTS-C*	1
1.0"		•					s	o	•		NTL-C*	2
1.5"			•				s		•		NT-C*	2
2.5"				•				s		•	NT-350-C	3
					•			s		•	NT-500-C	3
						•		s		•	NT-1000-C	3

KEY s = standard o = option

*NOTE: Fog pattern can be set up to 120°

FIXED SYSTEM CONFIGURATIONS



Figures depict general product types only and are not intended to be inclusive of all product features.

OPTIONS

THREADS

All nozzles are rigid NPT connections unless otherwise specified. See index T-13 for optional base threads.