



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-educating nozzles.

Some of the features of self-educating 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-educating 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-educating ability with the convenience of automatic metering

6-15

Foam pick-up hose attachment inlet



Large handles allow for easy pattern management



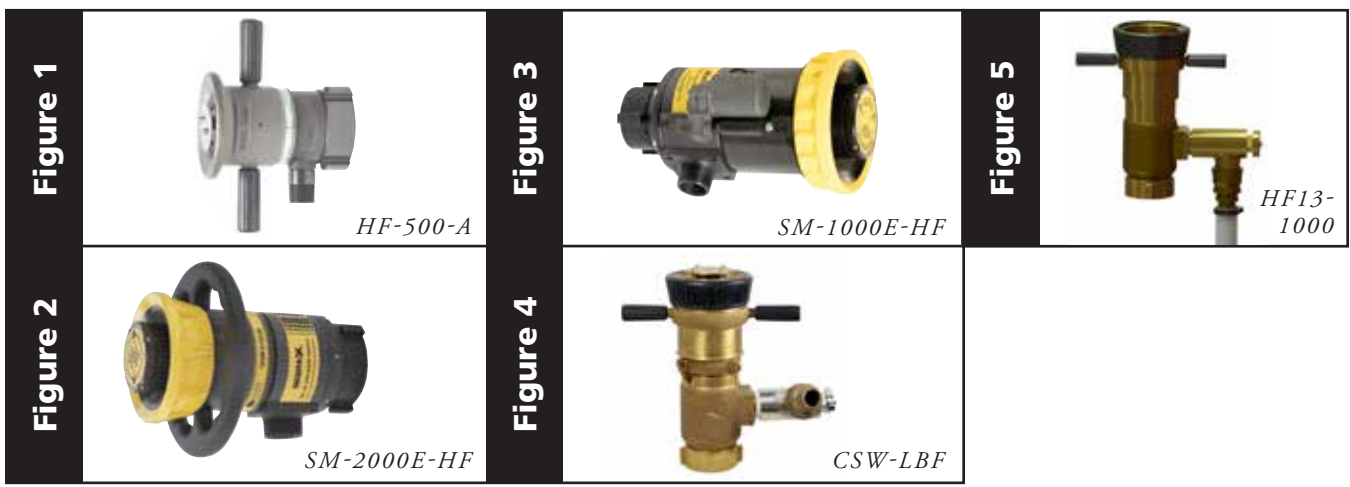
	NOZZLE FAMILY	
	X-Stream®	Hydro-Foam®
Flow Type	Automatic	Fixed
Description	High flow automatic nozzle	Original self-educing nozzle
Benefit	Optimizes use of concentrate and produces effective foam under a variety of conditions	Simple to use and flows well. Elk-O-Lite® version is lightweight and excellent 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

OPTIONS
<ul style="list-style-type: none"> 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.

Base Size	FAMILY / FLOW RATE					FOAM PROPORTIONING						Certifications	MATERIAL / FINISH					Effective Reach (ft.)	Weight (Lbs.)	MODEL	FIGURE				
	X-STREAM®/AUTOMATIC		HYDRO-FOAM®/FIXED			CONFIGURABLE			SELECTABLE				Electric	UL Listed	Brass (Satin)	Chrome	Composite					Elk-O-Lite®			
	GPM (LPM)								1/2%	1%	3%												6%	1/2% / 1%	1% / 3%
	350-1000 (1325-3785)	750-2000 (2839-7571)	350 (1325)	500 (1893)	750 (2839)	1000 (3785)																			
PSI (BAR) 100 (6.89)																									
2.5"			•				•	•	•	•			•	s	o			145	13.2	HF-350	1				
			•				•	•	•	•							s	145	4.2	HF-350-A	1				
					•		•	•	•	•			•	s	o			162	13.2	HF-500	1				
					•		•	•	•	•							s	162	4.2	HF-500-A	1				
	•																s	250	20.7	SM-1000-HF	2				
	•													•			s	250	20.7	SM-1000E-HF	3				
									•								s	212	22	CSW-LBF	4				
3.5"																			22	HF13-750	5				
																			22	HF13-1000	5				
	•																s	295	21.6	SM-2000-HF	2				
													•				s	295	21.6	SM-2000E-HF	3				

KEY s = standard o = option
*Fog pattern is 80°

SELF-EDUCTING FOAM CONFIGURATIONS



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.



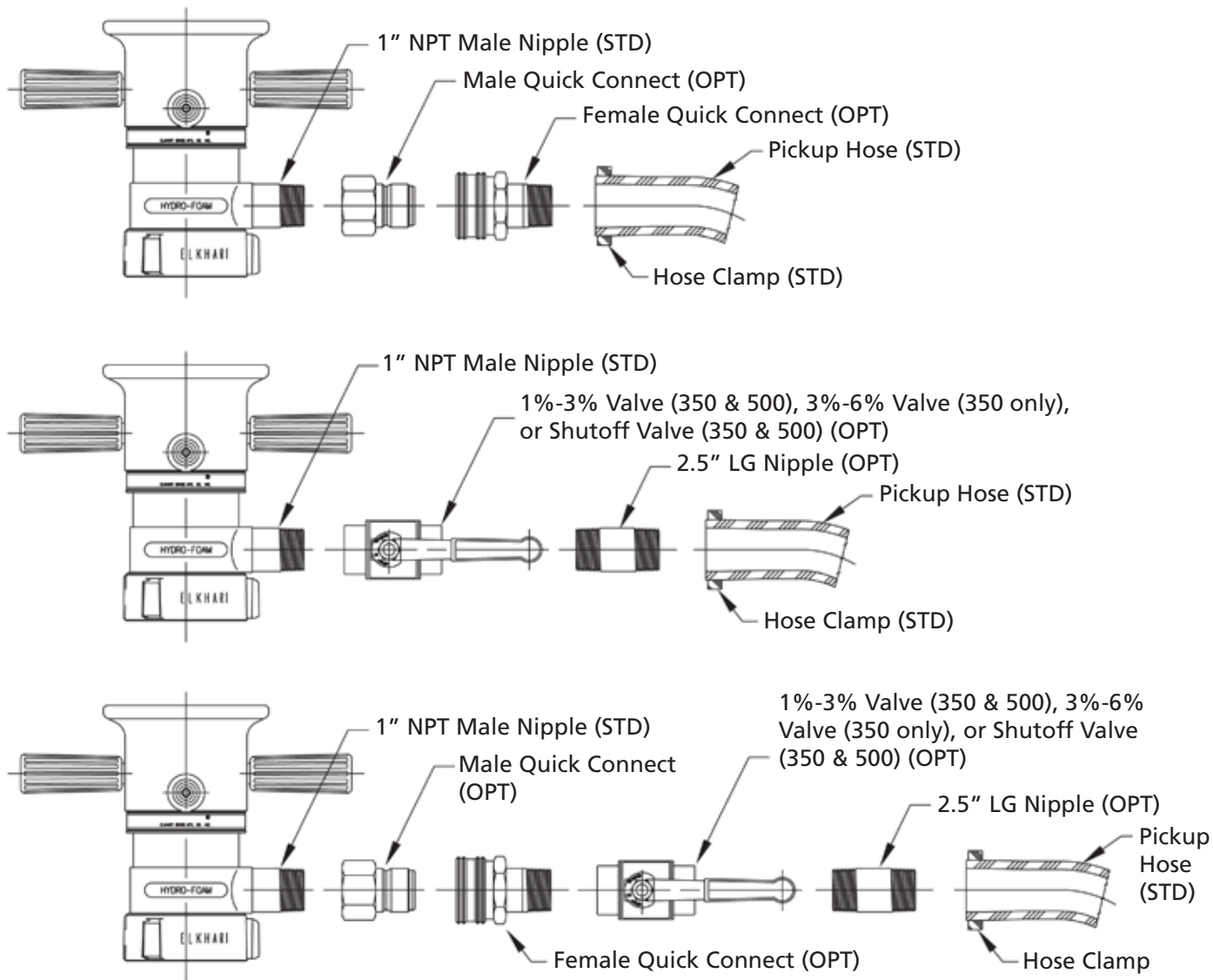
DRUM PICK-UP KIT

- 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 Valve 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.