

DATA SHEET

HF-500 Hydro-Foam Self-Educting Nozzle

The Elkhart Brass Hydro-Foam® self-educting nozzle design enables these products to flow foam solution without the need for special foam mixing equipment. The design of the Elkhart Brass Hydro-Foam nozzle provides the flexibility and reliability required for applying foam solution.



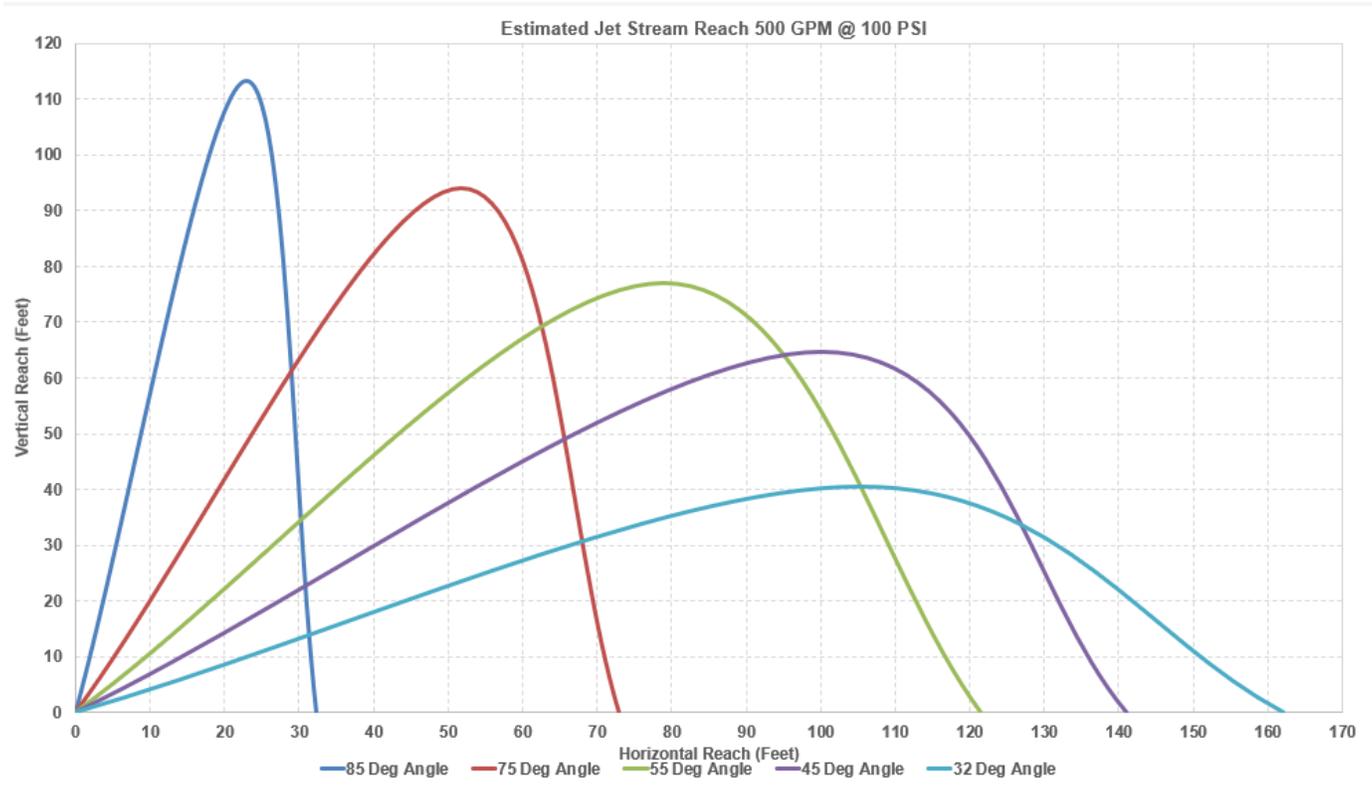
Features

- Rated for 500 gpm @ 100 psi (1900 LPM @ 7 BAR)
- Clear vinyl 9' (2.7 m) pick up hose included
- Pick up rates: ½%, 1%, 3% (HF-500)
- 2.5" NH female swivel inlet
- Satin brass finish UNS C84400
- U.L. Listed
- Aluminum version available
- Constant flow with built-in metering device accurately proportions foam concentrates at selected rate
- Stream pattern easily adjusted under flowing conditions from wide fog (90°) to straight (jet)
- Suitable for Class A and Class B foam including AR-AFFF, AFFF, FFF, & fluoroprotein foam concentrates

Nozzle	
	HF-500
Rated flow	500 gpm (1896 LPM)
Rated pressure	100 psi (7BAR)
Inlet size	2.5" NH female swivel rocker lug style
Type	Constant flow (all stream patterns)
Foam pick-up rates	½%, 1%, 3%
Foam pick-up tube	Clear flexible PVC 9.0' (2.7m) x 1.25" ID
Material	Corrosion resistant brass
Weight	19.0 lbs. (8.6 kgs.)
Ambient temperature	-35°F - 232°F (-37°C - 111°C)
Certification	UL listed

Stream Reach

Jet Stream Reach 500 GPM @ 100 PSI



This fire stream data is an engineering estimate using just water and is provided for reference only. Actual stream performance is affected by environmental conditions and fire water supply conditions at the site. All equipment should be assessed after installation to verify the adequacy of the fire protection systems.

The flow and reach data found on the following pages is compiled and updated by our engineering staff in the testing area of our assembly department.

- The flow is determined by an electronic flowmeter while a piezometer gauge at the base/inlet of the nozzle establishes the “nozzle pressure.”
- Narrow Fog (30 degrees) and Wide Fog (90 degrees) are then established by measuring where the last water droplets are falling at ground level. These tests are conducted in “still air” conditions, so the actual results will vary depending upon conditions.

Performance

GPM	Stream Setting	Discharge in U.S. GPM								Effective Reach in Feet							
		Nozzle Pressure PSI								Nozzle Pressure PSI							
		40	50	60	70	80	90	100	125	40	50	60	70	80	90	100	125
HF-500* HD-500-A	SS									97	110	123	136	145	155	162	175
	30° Fog	345	370	390	410	432	455	475	530	52	57	61	66	71	76	80	92
	90° Fog									18	20	22	23	25	27	29	31

* These flows figures computed with water only. Add 1, 3, 6% for total foam flow.

Dimensions (inches)

