



**DATA SHEET  
#NDD170**

**GLADIATOR®  
MID-RANGE 500, 750 & 1000 GPM  
FOAM/WATER NOZZLE**

**Description**

The Gladiator® nozzle represents the latest advancement in foam fire fighting nozzle technology and delivers the most effective fire attack flexibility and performance. The Gladiator is the first self educting nozzle designed for foam or water with the ability to deliver quality foam with any foam concentrate.

Prior to introduction of the Gladiator, firefighters had to compromise between poor foam quality of a water nozzle or the inferior stream range delivered by an excellent aspirating foam nozzle. Now you can have it all in a single package; nozzle range combined with excellent foam quality. The revolutionary design and unique foam producing characteristics make the Gladiator suitable for use with most types of foam concentrates; protein, fluoroprotein, AFFF, and AR-AFFF. The Gladiator's unique Ring Jet™ foam injection system and Air Tunnel™ design combined with its discharge straightening vanes provide consistent foam mixing resulting in excellent foam quality and stream performance.

**Features**

- Excellent Stream Range and Quality.
- SelectAir™ Adjustable Aspiration For Optimum Foam Quality.
- Ring Jet Injection For Complete Foam Mixing.
- Maximum Nozzle Performance With Minimum Foam Stream Fallout.
- Compatible With All Major Types Of Foam Concentrates.
- Stream Pattern Fully Adjustable.
- Excellent Water Fog Pattern Suitable for Vapor Cloud Mitigation.
- Nozzle can be used without the pickup tube.

**Foam Proportioning**

The Gladiator is a self educting nozzle equipped with a 12 foot (3.66 M) long foam pickup tube fitted with a quick connect attachment. The new Ring Jet Injection design incorporates eight equally spaced foam injection points surrounding the discharging water stream. This results in even distribution of the foam concentrate into the water stream to provide complete and homogenous foam mixing to maximize foam quality (expansion and 25% drain time) which is important for firefighting performance. Since foam liquid discharges into the water stream in a parallel fashion, there

is minimal disruption of the resulting foam stream during injection. The result is a high quality foam stream with minimal fallout and optimum range.

**Foam Expansion**

The Gladiator's exclusive SelectAir adjustable aspiration feature gives the operator the ability to adjust foam expansion to maximize nozzle performance. The unique Air Tunnel delivers air into the center of the foam stream for even distribution and good air entrainment. This enables more uniform foam expansion across the entire stream profile for optimum foam performance. The Air Tunnel delivers foam expansions of 6 to 1 or higher depending on the foam type and operating conditions. Firefighters now have the ability to balance nozzle range and foam expansion to suit the type of foam being used and the specific needs of the incident.

**Technical Data**

*Minimum Inlet Pressure* ..... 75 PSI (5.2 Bar)  
*Nominal Inlet Pressure* ..... 100 PSI (6.9 Bar)  
*Maximum Inlet Pressure* ..... 125 PSI (8.6 Bar)  
*Available Nozzle Flow Rates @ 100 PSI (6.9 Bar):*

- 500 GPM (1893 lpm)
- 750 GPM (2839 lpm)
- 1000 GPM (3785 lpm)

*Available Foam Pickup Rates:*

- ½%, 1%, 3% or 6% at 500 GPM (1893 lpm)
- ½%, 1% or 3% at 750 GPM (2839 lpm)
- ½%, 1% or 3% at 1000 GPM (3785 lpm)

*Water Inlet Connections:*

- 2-1/2" NH Swivel
- 3-1/2" NH Swivel Optional on 1000 GPM (3785 lpm)

*Foam Inlet Connection*..... 1-1/4"(32mm) FNPT w/ Quick Connector

*Foam Pickup Hose* ..... 12 Ft. (3.66M) Long

*Weight* ..... 23 Lbs. (10.5 kg)

*Materials of Construction:*

- Body ..... Hardcoated Aluminum
- Hardware/Pattern Ring ..... Stainless Steel
- Pattern Sleeve ..... Hardcoated Aluminum
- Pickup Tube ..... Reinforced Clear PVC with Brass Dip Tube

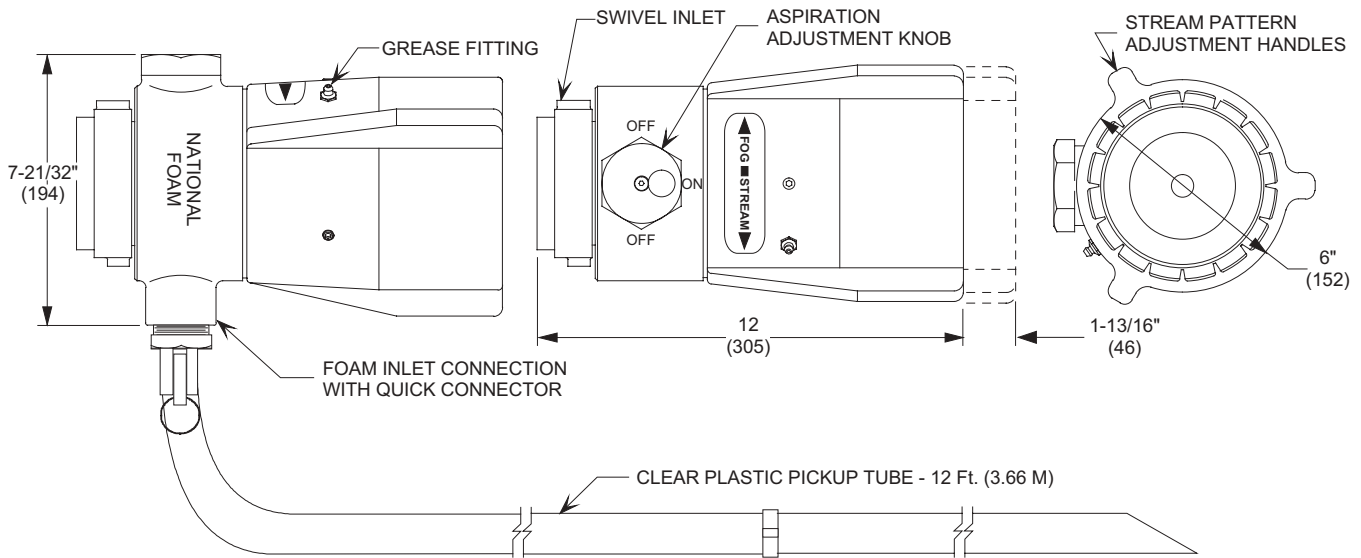
## Performance Data

	Nozzle Pressure PSI (Bar)	Flow Rate GPM (lpm)	Straight Stream Range Feet (M)
<b>Gladiator 500</b>	75 (5.2) .....	433 (1639) .....	138 (42.1)
	100 (6.9) .....	500 (1893) .....	150 (45.7)
	125 (8.6) .....	559 (2116) .....	180 (54.9)
<b>Gladiator 750</b>	75 (5.2) .....	650 (2460) .....	164 (50.0)
	100 (6.9) .....	750 (2839) .....	180 (54.9)
	125 (8.6) .....	839 (3176) .....	207 (63.1)
<b>Gladiator 1000</b>	75 (5.2) .....	866 (3278) .....	180 (54.9)
	100 (6.9) .....	1000 (3785) .....	200 (61.0)
	125 (8.6) .....	1118 (4232) .....	225 (68.6)

The Gladiator nozzle stream is fully adjustable from straight stream for maximum throw to fog pattern by rotation of the pattern adjustment sleeve.

## Ordering Information

Part No.	Description
1251-2517-7 .....	500 GPM, ½, 1, 3, 6% Met Vlv, 2½" NH
1251-2517-6 .....	500 GPM, ½% Pickup, 2½" NH
1251-2517-5 .....	500 GPM, 1% Pickup, 2½" NH
1251-2517-0 .....	500 GPM, 3% Pickup, 2½" NH
1251-2517-1 .....	500 GPM, 6% Pickup, 2½" NH
1251-2518-2 .....	750 GPM, ½% Pickup, 2½" NH
1251-2518-1 .....	750 GPM, 1% Pickup, 2½" NH
1251-2518-0 .....	750 GPM, 3% Pickup, 2½" NH
1251-2526-1 .....	1000 GPM, ½% Pickup, 2½" NH
1251-2526-0 .....	1000 GPM, 1% Pickup, 2½" NH
1251-2519-0 .....	1000 GPM, 3% Pickup, 2½" NH
1251-2526-3 .....	1000 GPM, ½% Pickup, 3½" NH
1251-2526-2 .....	1000 GPM, 1% Pickup, 3½" NH
1251-2519-8 .....	1000 GPM, 3% Pickup, 3½" NH



This information is only a general guideline, and each installation may require modifications to meet the applications or requirements of that situation. The company reserves the right to change any portion of this information without notice. Terms and conditions of sale apply and are available on request. 07/05 (REV. E) Printed in U.S.A. (NDD170.PMD)

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