

IRON MAN[®]

10,000 GPM CAPACITY MOBILE FOAM DELIVERY DEVICE

NBF190

- Water And Foam Solution Stream Range In Excess Of 450 Ft. (137m)
- Compatible With Major Types Of Foam Concentrates
- Quality Foam Stream With Minimal Fallout
- Multiple Flow Rates Achievable With Simple Change Of Monitor Tip



Description

The Iron Man is a trailer mounted high capacity flow device, utilizing a straight bore non-aspirating nozzle, capable of delivering a nominal 10,000 GPM of foam solution at a nominal pressure of 115 PSI at the inlet to the nozzle. Foam solution shall be supplied to the unit through a 12" Victaulic inlet connection, a 12" main in-take with a 12" S.R. elbow, and a 12" X 8" concentric reducer to accept an 8" raised face flange monitor. The trailer body shall have an integral water tank for ballast and four jack stands, one at each of the four corners, to insure unit stability during flow operations.

Monitor/Nozzle

Monitor body, rotating joints, and nozzle shall be Stainless Steel ANSI-316 with Viton gaskets. The Monitor shall have an 8" waterway with an 8" ANSI 150# raised face flange. Monitor/nozzle shall have a vertical elevation of between +15 to +90° above horizontal and shall be capable of 340° rotation. Hand wheels shall be provided for Monitor rotation and elevation/depression functions and the Monitor shall be incapable of changing positions on its own. The Nozzle shall be equipped with a hydraulically operated pattern changer, infinitely adjustable from straight stream to semi-fog pattern. The nozzle shall be capable of delivering, at its rated flow, an extremely tight foam solution stream with minimum fallout. A gauge shall be provided for monitoring nozzle

discharge flows and pressures. Annular area at nozzle's discharge tip can be sized to achieve 4,000, 6,000, 8,000, or 10,000 GPM nominal flow.

Trailer Body

The side closures of the trailer body/ballast tank shall be constructed using C15 X 50# HRS structural channels. The ballast tank top and bottom closure plates, and the tongue top plate are to be 1/4" thick HRS. Reinforcing cross members are to be made of 1/4 X 3 X 3 HRS structural angles. The tongue frame is to be constructed using C6 X 8.2# HRS structural channels. The ballast tank shall be equipped with four (4) 1-1/2" side drains located near each corner on the front and rear surfaces of the tank. One of the rear side drains shall be equipped with a 1-1/2" NH threaded female swivel for use in filling operations. Additionally, four (4) 1/2" bottom drains located on the bottom plate near each corner shall be provided. Two (2) 2" overflow vents shall be provided at the front corners of the ballast tank to prevent over pressur-ization. Bubble levels are to be mounted on each side and at the inlet end of the trailer to aid in trailer leveling prior to flow operations.

Running Gear

The trailer shall be equipped with two (2) 3500 lbs. axles, mounted in tandem, with electric brakes. Axle shaft tubing is 2-3/8" outside diameter with .180

wall thickness. Hub bolt pattern is 5 on 4-1/2" bolt center-to-center diameter. Suspension spring centers spacing is 70" and hub mounting faces spacing is 85". Each suspension spring assembly shall be double-eye style, consisting of four (4) springs. Four (4) 14" diameter by 5-1/2" wide spoke wheels to be painted white with zero-offset mounting face and four (4) 26.1" O.D. by 8.0" wide tires, ST205- 75-R14BC, with maximum load capacity of 1760 lbs. each.

Jack Stands

Four (4) drop-leg type jack stands, each with 7200 lbs. lift capacity, shall be welded to the front and rear, in the vicinity of each corner of the trailer for use during Monitor/nozzle operation. A fifth jack shall be mounted in the front area of the tongue to serve as a landing gear during hitching and unhitching operations. All jacks to be top-wind style. A ground pad will be attached to the foot of each of the jacks used during Monitor/nozzle operation to increase surface area contact.

Hitch

The unit shall be equipped with a 2" height adjustable ball hitch, 50° A-Frame coupler with load capacity of 10,000 lbs. Two (2) safety chains and Grab Type hooks, with minimum breaking strength of 7000 lbs. shall be provided. The chains and hooks are to be electro-galvanized zinc plated for corrosion resistance.

IRON MAN®

10,000 GPM CAPACITY MOBILE FOAM DELIVERY DEVICE

NBF190

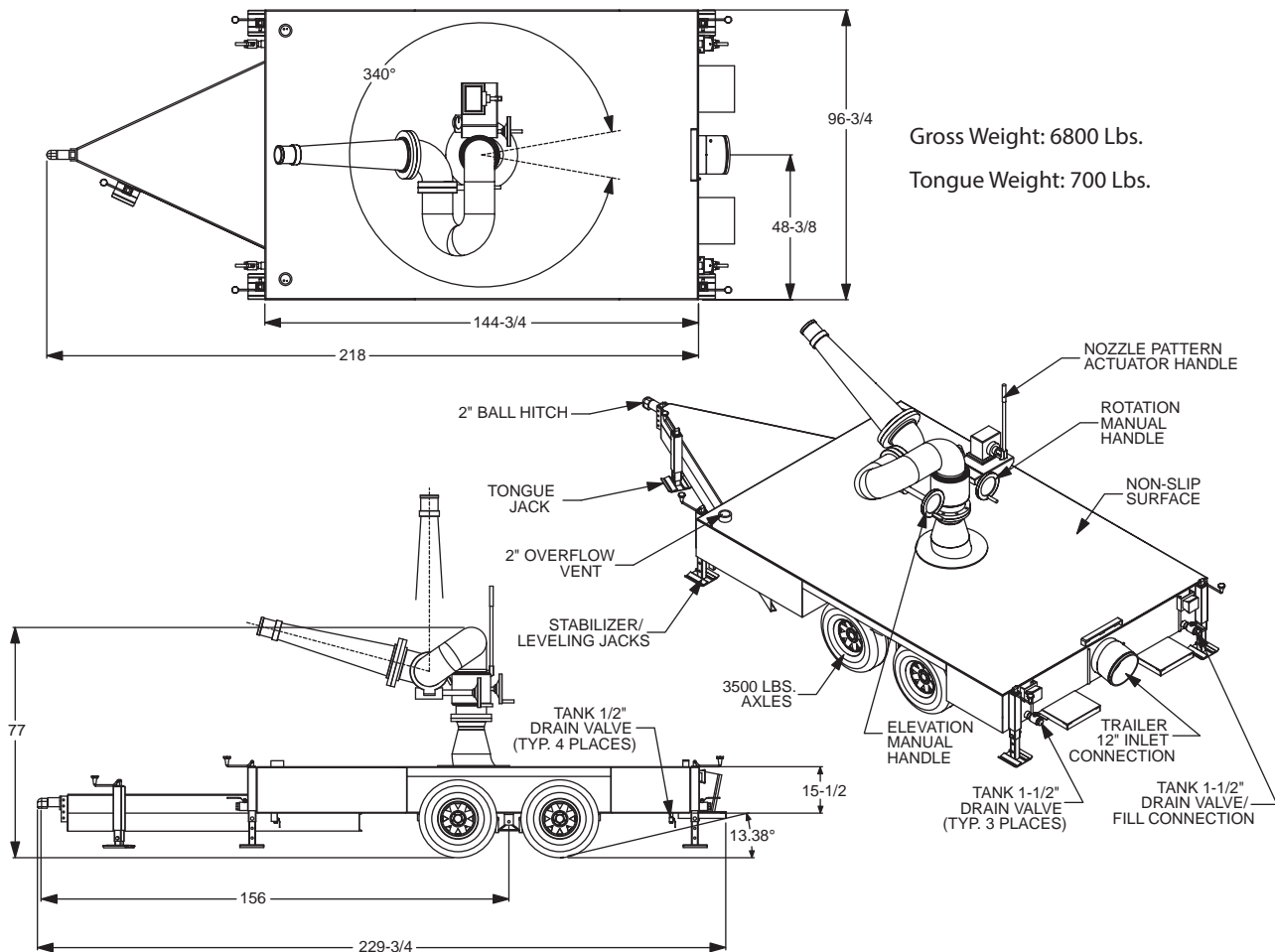
Paint

Trailer's non-walking surfaces shall be painted red and walking surfaces are to be coated with gray acrylic polymer water-based anti-slip coating. For safety, white reflective striping is to be provided on the sides of the trailer.

Electrical

Trailer shall be equipped with electric brakes, an emergency electronic breakaway system, two (2) front amber marker lamps, two (2) red stop/turn/tail lamps with built-in side markers, a 3-lamp center mount rear clearance light bar, and both vehicle end and trailer end 7-Pole towing connectors. The towing connectors are pin type zinc die cast, rated at 6-28 volts up to 40 amps, accepting from 14 gauge to 8 gauge wires, and color coded as follows:

- 1) GroundWhite
- 2) Marker.....Black
- 3) Left TurnYellow
- 4) 12VDC.....Red
- 5) Right Turn.....Green
- 6) 3 Bar Marker & Tail.....Brown
- 7) BrakeBlue



National Foam

350 East Union Street, West Chester, PA 19382, USA
 24hr **RED ALERT**® : 610-363-1400 • Fax: 610-431-7084

www.nationalfoam.com

National Foam operates a continuous program of product development. The right is therefore reserved to modify any specification without prior notice and National Foam should be contacted to ensure that the current issues of all technical data sheets are used.

© National Foam