PRODUCT GROUP SPECIFICATIONS

Adapters - Adapters shall be constructed of corrosion resistant, hard coat anodized aluminum alloy, with stainless steel components. The units shall meet a 900 psi hydrostatic strength test. Adapters shall meet NFPA 1965 (2009 edition). All LDH hose couplings shall use a polymer bearing ring for prevention of galvanic corrosion. Unit shall be available with a choice of hose threaded or Storz couplings, have a serial number, and be covered by a 5-year warranty.

AYNG Hi-Rise Wye Series - A 2-½" female inlet by one 1-½" male threaded outlet with ball valve and one 1½" non-valved outlet with protected pressure gauge shall be standard. Wye construction shall be of corrosion resistant hardcoat anodized, powder coated aluminum alloy with stainless steel components. Valve shall include high strength nylon folding handle for compact storage, and hardcoat aluminum shutoff ball with easily changeable valve seats. Valve shall have engraved serial number and a 5-year warranty.

AYNJ Gated Leader Wye Series - A 2-½" female inlet by two 1-½" male threaded outlets shall be standard. Wye construction shall be of corrosion resistant hardcoat anodized, powder coated aluminum alloy, and stainless steel components. Valve shall include high strength nylon handles with built-in stops, and hardcoat aluminum shutoff balls with easily changed valve seats. Valve shall have engraved serial number and a 5-year warranty.

Ball Intake Valve Series - Ball intake valve shall be constructed of corrosion resistant, hardcoat anodized aluminum alloy, with stainless steel components and ball section. The unit shall have limited friction loss at 2000 gpm flow and be designed for both pressure and vacuum service. The valve shall have an adjustable 50-200 psi pressure relief valve, air/water drain valve, valve position indicator, chain/lanyard attachment anchor eye, maximum operating pressure shall be 250 psi, and shall meet a 900 psi hydrostatic strength test. The valve shall meet NFPA 1965 (2009 edition). The valve shall have a silver powder coat finish inside and out. All hose couplings shall use a polymer bearing ring for prevention of galvanic corrosion. The 30° inlet elbow shall swivel 360° and have multiple positive detents to prevent hose kinking and coupling stress. Gear box mounted handcrank or side handwheel meets NFPA 1901 slow-close requirements, and handwheel shall be reversible from side to side. Unit shall be available with a choice of hose threaded or Storz couplings, have a serial number, and be covered by a 5-year warranty.

Ball Intake Valve Short Series - Ball intake valve shall be constructed of corrosion resistant, hardcoat anodized aluminum alloy, with stainless steel components and ball section. The unit shall have limited friction loss at 2000 gpm flow and be designed for both pressure and vacuum service. The valve shall have an air/water drain valve, valve position indicator, chain/lanyard attachment anchor eye. Maximum operating pressure shall be 250 psi, and meet a 900 psi hydrostatic strength test. The valve shall meet NFPA 1965 (2009 edition). The valve shall have a silver powdercoated finish inside and out. All hose couplings shall use a polymer bearing ring for prevention of galvanic corrosion. Gear box mounted hand crank or side handwheel meets NFPA slow close requirements, and handwheel is reversible from side to side. Units shall be available with or without automatic pressure relief valve. Units shall be available with your choice of hose threaded or Storz couplings, have a serial number, and be covered by a 5-year warranty.

Ball Intake Valve RC Series - Ball Intake Valve with electric remote control for opening and closing. And have a panel-mounted electric quick connect between the valve and control box. Control box to display open, closed, and intermediate valve positions. Control box and motor shall be waterproof. Ball intake valve shall be constructed of corrosion resistant, hard coat anodized aluminum alloy, with stainless steel components and ball section. The unit shall have limited friction loss at 2000 gpm flow and be designed for both pressure and vacuum service. The valve shall have an adjustable 50-200 psi pressure relief valve, air/water drain valve, valve position indicator, chain/lanyard attachment anchor eye, maximum operating pressure shall be 250 psi, and shall meet a 900 psi hydrostatic strength test. The valve shall meet NFPA 1965 (2009 edition). The valve shall have a silver powder coat finish inside and out. All hose couplings shall use a polymer bearing ring for prevention of galvanic corrosion. The 30° inlet elbow shall swivel 360° and have multiple positive detents to prevent hose kinking and coupling stress. Manual override handwheel meets NFPA 1901 slow-close requirements, and be reversible from side to side. Unit shall be available with a choice of hose threaded or Storz couplings, have a serial number, and be covered by a 5-year warranty.

Ball Valve Series - Valve shall be constructed of corrosion resistant, hardcoat anodized extruded aluminum alloy. Unit shall have nylon valve ball with detent flow control and high strength nylon handle. Inlet shall have 1-½" or 2-½" inlet (specify) and discharge outlet shall have 1-½" thread for coupling to a combination nozzle or smooth bore tip. Internal waterway shall be 1.375". Color-coded, injection molded nylon pistol grips, and valve handle covers shall be available. Rubber covered playpipe handles are available on 2-½" models. Nozzle shall have a full-time swivel inlet and laser engraved serial number and a 5-year warranty.

Ball Valve 75 Series - Valve body shall be constructed of corrosion resistant, hardcoat anodized extruded aluminum alloy. Valve shall have stainless steel ball shut-off and quick-change polymer valve seat. Valve handle shall be produced from high strength molded nylon and shall be provided with positive open and close stops. Female inlet (specify rigid or swivel) and male outlet shall have 1" thread. Valve will have .75" internal waterway. Color-coded, injection molded nylon pistol grips and valve handle covers shall be available. Nozzle shall have laser engraved serial number and a 5-year warranty.

Ball Valve 100 Series - Valve body shall be constructed of corrosion resistant, hardcoat anodized extruded aluminum alloy. Valve shall have stainless steel ball shut-off and quick-change polymer valve seat. Valve handle shall be produced from high strength molded nylon and shall be provided with positive open and close stops. Swivel female inlet and male outlet shall have 1-½" thread (specify). Valve shall have 1" internal waterway. Color-coded, injection molded nylon pistol grips and valve covers shall be available. Nozzle shall have laser engraved serial number and a 5-year warranty.

Ball Valve 140 Series - Valve body shall be constructed of corrosion resistant, hardcoat anodized extruded aluminum alloy. Valve shall have stainless steel ball shut-off and quick-change polymer valve seat. Valve handle shall be produced from high strength molded nylon and shall be provided with positive open and close stops. Swivel female inlet and male outlet shall have 1-½" or 2-½" thread (specify). Valve shall have 1.375" internal waterway. Color-coded, injection molded nylon pistol grips and handle covers shall be available. Nozzle shall have laser engraved serial number and a 5-year warranty.

Blind Caps - Storz® caps shall be constructed of corrosion resistant, hard coat anodized, heat treated aluminum alloy. Caps shall have lanyard, suction gasket and no locking lever per NFPA 1963. The units shall meet a 900 psi hydrostatic strength test. Caps shall meet NFPA 1965 (2009 edition). Unit shall be covered by a 5-year warranty.

Blitzfire® Series - Rated to 500 gpm, the Blitzfire® is a highly maneuverable attack monitor. The unit shall have folding legs with replaceable carbide tips, a 10-50° manually operated elevation outlet angle, and will include an automatic safety flow shut-off to reduce the risk of injury. The six-detent slide valve shut-off shall slow near stroke end to reduce the effects of water hammer. A 40° side-to-side manually operated pivioting outlet shall be standard. An up/down pivot on the hose inlet shall allow the monitor to have stability on uneven surfaces. An anchor strap shall be included, the main body is hard coat anodized aluminum with a blue powder coat finish inside and out, and a 2-½" inlet and outlet is standard. An optional, field-installed oscillating package upgrade shall be available. Monitor shall have laser engraved serial number and a 5-year warranty.

Blitzfire OSC® Series - Rated to 500 gpm, the Blitzfire OSC® is a highly maneuverable self-oscillating attack monitor. The unit shall have folding legs with replaceable carbide tips, a 10-50° manually operated elevation outlet angle, and will include an automatic safety flow shut-off to reduce the risk of injury. The six-detent slide valve shut-off shall slow near stroke end to reduce the effects of water hammer. A user-adjustable 20, 30 or 40° side-to-side automatic oscillating sweep outlet with manual override shall be standard. An up/down pivot on the hose inlet shall allow the monitor to have stability on uneven surfaces. An anchor strap shall be included, the main body is hard coat anodized aluminum with a blue powder coat finish inside and out, and a 2-½" inlet and outlet is standard. Monitor shall have laser engraved serial number and a 5-year warranty.

Blitzfire® HE Series - Rated to 500 gpm, the Blitzfire® HE is a highly maneuverable attack monitor. The unit shall have folding legs with replaceable carbide tips, a 10-86° manually operated elevation outlet angle, and will include an automatic safety flow shut-off to reduce the risk of injury. The six-detent slide valve shut-off shall slow near stroke end to reduce the effects of water hammer. A 40° side-to-side manually operated pivioting outlet shall be standard. An up/down pivot on the hose inlet shall allow the monitor to have stability on uneven surfaces. An anchor strap shall be included, the main body is hard coat anodized aluminum with a blue powder coat finish inside and out, and a 2-½" inlet and outlet is standard. An optional, field-installed oscillating package upgrade shall be available. Monitor shall have laser engraved serial number and a 5-year warranty.

Blitzfire HE Series OSC® - Rated to 500 gpm, the Blitzfire HE OSC® is a highly maneuverable self-oscillating attack monitor. The unit shall have folding legs with replaceable carbide tips, a 10-86° manually operated elevation outlet angle, and will include an automatic safety flow shut-off to reduce the risk of injury. The six-detent slide valve shut-off shall slow near stroke end to reduce the effects of water hammer. A user-adjustable 20, 30 or 40° side-to-side automatic oscillating sweep outlet with manual override shall be standard. An up/down pivot on the hose inlet shall allow the monitor to have stability on uneven surfaces. An anchor strap shall be included, the main body is hard coat anodized aluminum with a blue powder coat finish inside and out, and a 2-½" inlet and outlet is standard. Monitor shall have laser engraved serial number and a 5-year warranty.

Booster Series - The Booster is a secondary supply inlet for standpipe-mounted monitors. The Booster shall be rated up to 2500 gpm and shall allow pressure to be boosted using a pump, and/or foam to be introduced. The Booster shall allow a large diameter hose or in-line foam eductor to be connected to the secondary inlet with optional Storz or female hose threads ranging from 3.5" up to 6.0" (specify). Body shall be constructed of hard coat anodized aluminum alloy and have a red powder coat finish inside and out for maximum corrosion protection. A swing check valve within the secondary inlet shall allow connections to be made while the monitor is flowing from the main inlet (standpipe). An external automatic drain valve is standard to completely drain the monitor and Booster body following each use. The main inlet shall be available for either direct connection to a Task Force Tips Hydrant Under Monitor (HUM), or adapted to a 4" ANSI 150 flange bolt pattern (specify). Various outlets for monitor connection are available including 4" ANSI 150 flange or direct Task Force Tips monitor connection eliminating one flange (specify). The unit shall have a unique serial number and a written 5-year warranty.

BubbleCup® Series - Lightweight fog, straight stream, and foam aspiration nozzles with dual gallonage settings. Nozzles shall have a retractable PVC sleeve for foam aspiration, twist shut-off, and shall be available with stainless steel ball shut-off and quick-change polymer valve seat. Valve handle shall be produced from high strength molded nylon and shall be provided with positive open and close stops. The extruded aluminum alloy body shall be hardcoat anodized and reflective labeling shall be standard. Color-coded, injection molded nylon pistol grips and handle covers shall be available. Nozzle shall have laser engraved serial number and a 5-year warranty.

CAFS-Force Nozzle – Nozzles shall be engineered to provide optimal foam stream performance, as well as offering low pressure nozzle operations when using water alone. Nozzles shall have a molded rubber bumper with "power fog" teeth, flush without shutting down, reflective labeling shall be standard, and meet NFPA 1964 (2008 edition). The extruded aluminum alloy body shall be hard coat anodized and nozzle shall have an automatic dual-pressure control with a water flow capacity of 70-200 gpm that may be switched from standard low pressure (water application) to CAFS mode. Nozzle shall have laser engraved serial number and a 5-year warranty.

Crossfire® Series - Rated to 1250 gpm, the Crossfire® is a portable ground monitor and/or deck mounted monitor. The Crossfire® monitor top with hand wheel shall provide elevation control from 90° to the safety stop at 30° above horizontal, and shall be capable of lower elevation angle when truck mounted. A visually verifiable lever action rotational lock, quick release bar with locking pawls, automatic drain valve, stainless steel worm gear, integral stream straighteners, and pressure gauge shall all be standard. The SAFE-TAK® ground base shall have replaceable carbide tipped, stainless steel folding legs, and will include an automatic safety flow restriction device to reduce the risk of injury. An anchor strap attached to protective ground base outlet cap shall be included. All castings are hardcoat anodized aluminum alloy with a powder coat finish inside and out, and available with twin 2-½" clappered inlet, or single large diameter inlet. An optional pressure relief valve (single inlet models only), truck mounting bracket, apparatus mounting adapters and nozzles are available. Monitor and base shall each have laser engraved serial number and a 5-year warranty.

Dual Flow LX Foam Nozzle - The foam aspirating dual gallonage high flow nozzle has two flow settings of 800 and 1585 gpm @ 150 psi. Flow settings are changed using a locking lever handle. Unit requires no grease or other maintenance. Nozzle shall be constructed of lightweight hardcoat anodized materials. Standard inlet shall be 3-1/2" female swivel. Nozzle shall have a laser engraved serial number and a 5-year warranty.

Dual-Force® Series - Lightweight fog and straight stream nozzles with constant pressure / variable gallonage operation. Nozzles shall have a molded rubber bumper with "power fog" teeth, a stainless steel slide valve with detent flow control (except tip-only models), and inlet debris screen. The nozzle shall have a dual pressure selector that allows for 100 psi or 55 psi pressure operation or a low-pressure version that allows 75 psi or 45 psi pressure operation. The extruded aluminum alloy body shall be hardcoat anodized and reflective labeling shall be standard. The nozzle shall have a full-time swivel inlet (except tip-only models), flush without shutting down and meet NFPA 1964 (2008 edition). Color-coded, injection molded nylon pistol grips and valve handle covers (except tip-only models) shall be available and nozzles shall accept the low and multi-expansion foam attachments. Nozzle shall have laser engraved serial number and a 5-year warranty.

Elbows - 30° elbows shall be constructed of corrosion resistant, hard coat anodized aluminum alloy, with stainless steel components. The units shall meet a 900 psi hydrostatic strength test. Elbows shall meet NFPA 1965 (2009 edition). The elbow shall have a silver powder coat finish inside and out. All LDH hose couplings shall use a polymer bearing ring for prevention of galvanic corrosion. Unit shall have chain/lanyard attachment anchor point, and be available with a choice of hose threaded or Storz couplings (specify), have a serial number, and be covered by a 5-year warranty.

Extend-A-Gun™ Manual Series - The telescoping waterway shall be capable of being lowered to deck level (or into a monitor well) for monitor storage, and shall be capable of raising the monitor to an extended position by lifting the quick release bar and raising the unit manually. The extension shall be available in extension travel lengths of either 12" or 18"(specify) and shall lock into and be usable in fully raised or fully lowered positions. The Extend-A-Gun shall allow for full 360-degree monitor rotation operation in either the raised or lowered positions. Shall have a 3" waterway, hard coat anodized finish, and built-in sensor for connection to "monitor raised" warning light. The inlet shall be either 3" grooved Victaulic or 3" male NPT or BSP thread (specify). The outlet shall be either 3" male NPT thread or Crossfire monitor connection (specify). Unit shall have laser engraved serial number and be covered by a 5-year warranty.

Extend-A-Gun RC 3™ Series - The remote controlled telescoping waterway shall be capable of being lowered to deck level (or into a monitor well) for monitor storage, and shall be capable of raising the monitor to an extended position by electric remote control. The extension travel length shall be either 12" or 18" and shall lock and be usable in fully raised or fully lowered positions and operated by an electric motor controlled from TFT RC monitor controls or with optional remote control operators panel. Manual override shall be included. The Extend-A-Gun RC 3 shall allow for full 360° monitor rotation operation in either the raised or lowered positions. Shall have a 3" waterway, hard coat anodized finish, and built-in sensor for connection to "monitor raised" warning light. The inlet shall be either 3" grooved Victaulic or 3" male NPT or BSP thread (specify). The outlet shall have Tornado, Hurricane, Typhoon or Monsoon manual or electric remote monitor attachment (specify). Unit shall have serial number and be covered by a 5-year warranty.

Extend-A-Gun RC 4™ Series - The remote controlled telescoping waterway shall be capable of being lowered to deck level (or into a monitor well) for monitor storage, and shall be capable of raising the monitor to an extended position by electric remote control. The extension travel length shall be 18" and shall lock and be usable in fully raised or fully lowered positions and be operated by an electric motor controlled from TFT RC monitor controls or with optional remote control operators panel. Manual override shall be included. The Extend-A-Gun RC 4 shall allow for full 360° monitor rotation operation in either the raised or lowered position. Shall have a 4" waterway, hard coat anodized finish, and built-in sensor for connection to "monitor raised" warning light. The inlet shall be either 4" grooved Victaulic or 4" male NPT or BSP thread (specify). The outlet shall have Hurricane, Typhoon or Monsoon manual or electric remote monitor attachment (specify). Unit shall have serial number and be covered by a 5-year warranty.

Foam Eductor 125 Series - Portable in-line foam eductor shall be constructed of corrosion resistant, hard coat anodized aluminum alloy, with stainless steel components. Eductor shall have 1-½" or 2-½" inlet (specify) and 1-½" outlet, and shall be available in 60, 95 or 125 gpm flow rating (specify) and shall accurately proportion at 0.25%, 0.5%, 1%, 3%, and 6% user adjustable settings with detents. The pickup head shall include a quick connector and push-button back-flush function. Concentrate pick-up tube shall be constructed of 1" ID industrial grade, transparent reinforced tubing and stainless steel components. The units shall meet a 900 psi hydrostatic strength test. Eductors shall meet NFPA 1965 (2009 edition). Units shall have a laser engraved serial number and be covered by a 5-year warranty.

Foam Eductor 350 Series - Portable in-line foam eductor shall be constructed of corrosion resistant, hard coat anodized aluminum alloy, with stainless steel components. Eductor shall have 2-½" inlet and outlet, and shall be available in 250 or 350 gpm flow rating at either 150 or 200 psi inlet pressure (specify). It shall accurately proportion at 0.5%, 1%, 3%, and 6% user adjustable settings with detents. The pickup head shall include a quick connector and push-button back-flush function. Concentrate pick-up tube shall be constructed of 1.25" ID industrial grade, UV resistant tubing and stainless steel components. The units shall meet a 900 psi hydrostatic strength test. Eductors shall meet NFPA 1965 (2009 edition). Units shall have a laser engraved serial number and be covered by a 5-year warranty.

Forestry Gated Wye Series - A 1" or 1-½" female inlet (specify) by two 1" or 1-½" male threaded outlets (specify) shall be standard. Wye construction shall be of corrosion resistant hard coat anodized, aluminum alloy, and stainless steel components. Valve shall include high strength nylon handles with built-in stops, and easily changed valve seats. Valve shall have engraved serial number and a 5-year warranty.

Forestry In-line Valve - A 1" or 1-½" female inlet (specify) by 1" or 1-½" male threaded outlet (specify) shall be standard. Valve construction shall be of corrosion resistant hard coat anodized, aluminum alloy, and stainless steel components. Valve shall include high strength nylon handle with built-in stops, and easily changed valve seats. Valve shall have engraved serial number and a 5-year warranty.

Forestry In-line Tee - A 1-½" female inlet and 1-½" male threaded outlet shall be standard. Branch outlet shall be 1" NH or NPSH male thread (specify). Valve shall include high strength nylon handle. Valve shall have engraved serial number and a 5-year warranty.

Gated Wye 2 ½" - shall have a full 2-½" waterway, field replaceable valve seats, and a quarter-turn valve handle requiring low force to move valve with up to 250 psi (17 bar) maximum operating pressure from either side of valve. Automatic valve lock to maintain valve position while flowing at partial openings shall be standard. Quarter turn color coded folding valve handles for compactness, cast in carrying handle shall be standard. Pipe threaded ports for pressure gauge or bleed valve and hole for cap tether attachment shall be included. Aluminum casting shall be hardcoat anodized and silver TFT-powder coat finish inside and out for maximum corrosion protection Available with many combinations of inlet and outlet connections. Valve shall have serial number and a 5-year warranty.

Gated Siamese 2 ½" - shall have a full 2-½" waterway, field replaceable valve seats, and a quarter-turn valve handle requiring low force to move valve with up to 250 psi (17 bar) maximum operating pressure from either side of valve. Automatic valve lock to maintain valve position while flowing at partial openings shall be standard. Quarter turn color coded folding valve handles for compactness, cast in carrying handle shall be standard. Pipe threaded ports for pressure gauge or bleed valve and hole for cap tether attachment shall be included. Aluminum casting shall be hardcoat anodized and silver TFT-powder coat finish inside and out for maximum corrosion protection Available with many combinations of inlet and outlet connections. Valve shall have serial number and a 5-year warranty.

Handline Series - Lightweight fog and straight stream nozzles with constant pressure / variable gallonage operation. Nozzles shall have a molded rubber bumper with "power fog" teeth, a stainless steel slide valve with detent flow control, (except tip-only models) and inlet debris screen. The extruded aluminum alloy body shall be hardcoat anodized, and reflective labeling shall be standard. The nozzle shall have a full-time swivel inlet (except tip-only models), flush without shutting down and meet NFPA 1964 (2008 edition). Color-coded, injection molded nylon pistol grips and color-coded valve handle covers shall be available (except tip-only models). Nozzles shall accept the low and multi-expansion foam attachments. Nozzle shall have laser engraved serial number and a 5-year warranty.

Hose Hook - Hose hook components shall be made from lightweight and durable nylon. Unit shall have an integral spanner wrench to fit 2-½" rocker lug couplings and most 4" and 5" Storz couplings. A foam concentrate pail lid removing tool shall be integrated. Tool shall be capable of draining hose and carrying rolled hose up to 5" large diameter hose. Unit shall include a mounting bracket. Tool shall have a 5-year warranty.

Hose Roller - Hose roller components shall be made from aluminum alloy with stainless steel hardware and polymer rollers. Unit shall have three hand grips and be hinged at one end. Unit shall be covered by a 5-year warranty.

HUM - Hydrant Under Monitor Series – The valve with two large diameter hose ports shall be designed for use under monitors and have low friction loss through its large, unobstructed waterway. Rated up to 300 psi (21 bar) and supporting monitors up to 2500 gpm. Valve body shall be constructed of hard coat anodized aluminum alloy and have a red powder coat finish inside and out for maximum corrosion protection. All other structural components shall be constructed of hard coat anodized aluminum alloy. Two concentric slow-close half ball valves shall allow the monitor to be operated either independently or simultaneously with the hose ports. Each half ball shall be controlled by a hand crank through a sealed gear box with color-coded retro-reflective valve position indicator for visibility in most light conditions. Valve inlet base shall be a 6" ANSI 150 flange. An external automatic drain valve is standard, as well as a second internal drain valve located within the monitor valve half ball to completely drain the monitor and valve body following each use. An optional third internal automatic drain valve within the main shutoff half ball (specify) shall be available to assist in draining water when the valve is closed, after the incoming water pressure is shut off. Various outlets for monitor connection are available including 4" ANSI 150 flange, direct Task Force Tips monitor connection eliminating one flange, or Task Force Tips Booster unit (specify). Various outlets for hose port connection are available including Storz couplings, male threaded spouts or gated wye, with sizes ranging from 1.5" up to 6.0" (specify). All hose connections are supplied with a pressure cap with lanyard. A blind plug shall be installed in the smaller of the two hose ports when no connection is specified. The unit shall have a unique serial number and have a written 5-year warranty.

Hurricane Monitor Series - Rated up to 1250 gpm, the Hurricane is a fixed station or truck mounted monitor. The hand wheel shall provide elevation control from 90° above to 90° below horizontal. The unit shall have a full 360° rotational travel, visually verifiable lever action rotational locking mechanism, automatic drain valve, stainless steel worm gear, and shall have grease zerk fittings for easy service and lubrication. The discharge elbow shall include an integral stream straightener. The monitor shall be hard coat anodized aluminum alloy, and shall have a red powder coat finish inside and out. Various flange and threaded inlets including locking quick connect shall be available (specify). Unit shall have laser engraved serial number and be covered by a 5-year warranty.

Hurricane RC Monitor Series - Rated up to 1250 gpm, the Hurricane RC is a remotely controlled fixed station or truck mounted monitor with electric remote control of rotation and elevation angle. The electric motor shall provide elevation control from 90° above and 45° below horizontal. The unit shall have an electrically operated 450° horizontal rotational travel, user installed travel limit stops, automatic drain valve, stainless steel worm gear drive, and shall have grease zerk fittings for easy service and lubrication. User operation controls shall be mounted on the monitor, and shall include rotation, elevation and nozzle stream pattern control programmable park and oscillate and two auxiliary controls. Optional remote wired, tethered and wireless remote controls shall be available. The discharge elbow shall include an integral stream straightener. The monitor shall be constructed of hard coat anodized aluminum alloy and shall have a silver powder coat finish inside and out. Various flange and threaded inlets including locking quick connect shall be available (specify). Unit shall have serial number and be covered by a 5-year warranty.

Hydrant Assist Valves - Hydrant assist valve shall have stainless steel valve ball section, gear box mounted hand crank with valve position indicator, low friction loss, maximum operating of 250 psi, and shall meet a 900 psi hydrostatic strength test. An automatic clapper valve with position indicator shall be standard to allow water flow in the event of booster pump failure for uninterrupted water flow. Large diameter inlets and outlets shall have corrosion resistant polymer bearing strip, and be available in threaded or Storz connections (specify), and shall have a carrying strap. Aluminum casting shall be hardcoat anodized and silver TFT-powdercoat finished for maximum corrosion protection. The unit shall have a serial number and a 5-year warranty..

Hydrant Gate Valve - 2-½ valve shall have full flow waterway, field replaceable valve seat, and a quarter-turn color coded valve handle requiring low force to move valve with up to 250 psi (17 bar) maximum operating pressure from either side of valve. Automatic valve lock to maintain valve position while flowing at partial openings shall be standard. Pipe threaded ports for pressure gauge or bleed valve and hole for cap tether attachment shall be included. Aluminum casting shall be hardcoat anodized and silver TFT-powder coat finish inside and out for maximum corrosion protection. Unit shall have serial number and be covered by a 5-year warranty.

Hydrant Master - Electric remote controlled low friction loss hydrant valve shall meet slow operating requirements of NFPA 1965 utilizing a sliding plug. Unit shall be capable of being operated manually with control on the valve, electrically from push buttons on the valve and the wireless handheld controller. The handheld controller and valve both include a pressure display and valve position feedback, and controls the valve up to 1200 feet away. Valve and controller are backlit for low-light conditions, operate using (4) AA batteries, valve is pressure activated, and both are equipped with power-save mode. Aluminum casting is hardcoat anodized and powder coated silver inside and out. The valve shall have an automatic drain to drain valve body once water pressure is removed. Electronics on valve and controller are waterproof. Mounting bracket for wireless controller is included. Various inlet and outlet couplings are available (specify). The units shall have serial numbers and be covered by a 5-year warranty.

Hydrant/Spanner Dual End Wrench (A3800) - Wrench shall be made from aluminum alloy and shall have knurled grip. Wrench shall be for use on square or pentagon hydrant nuts using either the adjustable square or pentagon shapes provided on opposite ends of the wrench. Large hook type spanner shall fit 4", 5" and 6" Storz couplings. Wrench shall have smaller spanner for 2-1/2" couplings. Unit shall be covered by a 5-year warranty.

Hydrant/Spanner Single End Wrench (A3835) - Wrench shall have a manganese bronze head, plated steel handle, and have a high visibility grip. Wrench shall be for use on square or pentagon hydrant nuts. Compact spanner claw shall fit pin and rocker lug couplings. Unit shall be covered by a 5-year warranty.

In-line Pressure Gauge - Gauge waterway body shall be constructed of corrosion resistant, hard coat anodized aluminum alloy. Units shall be available in 2-½" female swivel inlet and male outlet or 1-½" female swivel inlet and male outlet (specify). Pressure gauge shall be liquid-filled, with pitot-type probe into the waterway. Gauge shall have protective rubber bumper and be available in 0-200 psi or 0-300 psi (specify). Unit shall be covered by a 5-year warranty.

IVUM 4" Industrial Valve Under Monitor Series – Valve shall be designed for use under monitors and have low friction loss through its large, unobstructed waterway. Rated up to 300 psi (21 bar) and supporting monitors up to 2500 gpm. Valve body shall be constructed of hard coat anodized aluminum alloy and have a red powder coat finish

inside and out for maximum corrosion protection. Inlet flange, half ball and associated hardware shall be available as a collective option of either stainless steel or hard coat anodized aluminum alloy (specify). Valve shall control water flow adjacent to the 4" ANSI 150 inlet flange. An external automatic drain valve is standard to completely drain the monitor and valve body following each use. An optional internal automatic drain valve within the half ball (specify) shall be available to assist in draining water when the valve is closed, after the incoming water pressure is shut off. Various outlets for monitor connection are available including 4" ANSI 150 flange or direct TFT monitor connection eliminating one flange (specify). Monitor valve control shall be controlled by a hand crank through a sealed gear box with two retro-reflective valve position indicators for visibility around a 360° perimeter in most light conditions. Valve seats shall be field replaceable using a tool available from Task Force Tips. The unit shall have a serial number and a written 5-year warranty.

Jumbo Ball Intake Valve Series - Ball Intake Valve shall have a 5-¼" diameter waterway. The unit shall be constructed of corrosion resistant, hardcoat anodized aluminum alloy, with stainless steel components and ball section. The unit shall have limited friction loss at 3000 gpm flow and be designed for both pressure and vacuum service. The valve shall have an adjustable 50-200 psi pressure relief valve, air/water drain valve, valve position indicator, chain/lanyard attachment anchor eye, maximum operating pressure shall be 250 psi, and shall meet a 900 psi hydrostatic strength test. The valve shall meet NFPA 1965 (2009 edition). The valve shall have a silver powder coat finish inside and out. All hose couplings shall use a polymer bearing ring for prevention of galvanic corrosion. The 30° inlet elbow shall swivel 360° and have multiple positive detents to prevent hose kinking and coupling stress. Models without inlet elbow shall be available. Gear box mounted hand crank or handwheel (specify) shall meet NFPA 1901 slow-close requirements, and handwheel shall be reversible from side to side. Unit shall be available with a choice of hose threaded or Storz couplings, have a serial number and be covered by a 5-year warranty.

Jumbo Ball Intake Valve RC Series - Ball Intake Valve with electric remote control for opening and closing and have a panel mounted electric quick connect between the valve and control box. Control box to display open, closed, and intermediate valve positions. Control box and motor shall be waterproof. Ball Intake Valve shall have a 5-¼" diameter waterway. Ball intake valve shall be constructed of corrosion resistant, hard coat anodized aluminum alloy, with stainless steel components and ball section. The unit shall have limited friction loss at 3000 gpm flow and be designed for both pressure and vacuum service. The valve shall have an adjustable 50-200 psi pressure relief valve, air/water drain valve, valve position indicator, chain/lanyard attachment anchor eye, maximum operating pressure shall be 250 psi, and shall meet a 900 psi hydrostatic strength test. The valve shall meet NFPA 1965 (2009 edition). The valve shall have a silver powder coat finish inside and out. All hose couplings shall use a polymer bearing ring for prevention of galvanic corrosion. The 30° inlet elbow shall swivel 360° and have multiple positive detents to prevent hose kinking and coupling stress. Models without inlet elbow shall be available. Manual override hand wheel shall meet NFPA 1901 slow-close requirements, and be reversible from side to side. Unit shall be available with a choice of hose threaded or Storz couplings, have a serial number, and be covered by a 5-year warranty.

Jumbo Siamese and Wye Series - Wye and Siamese shall be constructed of corrosion resistant, hard coat anodized aluminum alloy, with stainless steel components. The units shall have chain/lanyard attachment anchor eye, rugged carrying handle (except 2-½" models), and shall meet a 900 psi hydrostatic strength test. Units shall meet NFPA 1965 (2009 edition). The unit shall have a silver powder coat finish inside and out. All LDH hose couplings shall use a polymer bearing ring for prevention of galvanic corrosion. Siamese unit shall include clapper valve with visual flow indicator. Unit shall be available with a choice of hose threaded or Storz couplings, have a serial number, and be covered by a 5-year warranty.

LDH In-Line Valves - LDH in-line valve shall have stainless steel valve ball section, valve position indicator, maximum operating of 250 psi, and shall meet a 900 psi hydrostatic strength test. Gear box mounted hand crank or side handwheel (specify) meets NFPA 1901 slow-close requirements, and handwheel shall be reversible from side to side. ¾" pipe threaded port for optional air bleeder/drain valve shall be included. Large diameter inlet and outlet shall have corrosion resistant polymer bearing strip, and be available in threaded or Storz connections (specify), and shall have a carrying handle. Aluminum casting shall be hardcoat anodized and silver TFT-powder coat finish inside and out for maximum corrosion protection. An optional, adjustable pressure relief valve shall be available. The unit shall have a serial number and a 5-year warranty.

LDH Manifold and Siamese, 3-Way - LDH by 2-½" LDH 3-way manifold and Siamese shall have three (3) full 2-½" waterway valved ports with field replaceable valve seats, quarter turn valve handles with low force to move even under pressure with up to 250 psi (17 bar) maximum operating pressure from either side of the valves. Automatic valve lock on 2-½" inch valves keep their position while flowing at partial openings and shall be standard. Units shall include three folding color coded valve handles to minimize storage space. ¾" pipe threaded port for optional air bleeder/drain valve shall be included. Large diameter port shall have corrosion resistant polymer bearing strip, and be available in threaded or Storz connections (specify). Unit shall have a strap for carrying and dragging hose. Aluminum casting shall be hardcoat anodized and silver TFT-powdercoat finish inside and out for maximum corrosion protection. 3-Way Manifold shall have male thread on 2-½" valved ports and Siamese shall have female swivel threaded connections on 2-½" valved ports. Maximum operating pressure of the unit shall be 250 psi. An optional, adjustable pressure relief valve shall be available. The unit shall have a serial number and a 5-year warranty.

LDH Manifold and Siamese, 4-Way - LDH by 2-½" LDH 4-way manifold and Siamese shall have four (4) full 2-½" waterway valved ports with field replaceable valve seats, quarter turn valve handles with low force to move even under pressure with up to 250 psi (17 bar) maximum operating pressure from either side of the valves. Automatic valve lock on 2-½" inch valves keep their position while flowing at partial openings and shall be standard. Units shall include four folding color coded valve handles to minimize storage space. ¾" pipe threaded port for optional air bleeder/drain valve shall be included. Large diameter port shall have corrosion resistant polymer bearing strip, and be available in threaded or Storz connections (specify). Unit shall have a strap for carrying and dragging hose. Aluminum casting shall be hardcoat anodized and silver TFT-powder coat finish inside and out for maximum corrosion protection. 4-way manifold shall have male thread on 2-½" valved ports and Siamese shall have female swivel threaded connections on 2-½" valved ports. Maximum operating pressure of the unit shall be 250 psi. An optional, adjustable pressure relief valve shall be available. The unit shall have a serial number and a 5-year warranty.

LDH Manifold, 5-Way – LDH by 2-½" - LDH 5-way manifold shall have stainless steel slow close, slow open slide valve on LDH waterway. Manifold shall have four (4) full 2-½" waterway valved ports with field replaceable valve seats, quarter turn color-coded valve handles with low force to move even under pressure up to 250 psi (17 bar) maximum operating pressure. Automatic valve lock on 2-½" valves keep their position while flowing at partial openings and shall be standard. Unit shall have four folding color coded valve handles to minimize storage space. Large diameter ports shall have corrosion resistant polymer bearing strip, and be available in Storz connections (specify). Unit shall have a carrying handle. Aluminum casting shall be hardcoat anodized and silver TFT powder coat finish inside and out for maximum corrosion protections. Maximum operating pressure shall be 250 psi. Unit shall have pressure relief valve and protected pressure gauge. The unit shall have a serial number and a 5-year warranty.

Low Expansion Foam Attachment - Air aspirating nozzle foam attachment shall be constructed of corrosion resistant, high strength materials with stainless steel screen (except FJ-LX-M model) and components. Attachment shall attach to appropriate nozzle bumper with a locking mechanism. Unit shall have reflective labeling, engraved serial number, and be covered by a 5-year warranty.

Master Foam Series - Fixed Gallonage combination fog, straight stream, self-educting, constant gallonage foam nozzle shall be available with a flow of 750, 500, 350 or 250 gpm @ 100 psi (specify) and user selected foam proportioning ratios of 0.5%, 1%, 3%, or 6%. Nozzle shall be hardcoat anodized aluminum alloy. Nozzle shall include an industrial grade UV resistant 1-½" concentrate pickup hose with cam lock connection to nozzle foam inlet and a UV resistant front rubber bumper and halo ring for pattern adjustment. 2-½" female inlet is standard and the nozzle shall accept the FJ-LX-M low expansion foam attachment. Nozzle shall have reflective labeling, laser engraved serial number and a 5-year warranty.

Master Stream 1000 Fixed Series - Fixed Gallonage combination fog and straight stream Master Stream nozzle with a fixed gallonage setting shall be provided. The nozzle shall be pre-set and laser marked at the factory to meet the customer's specified flow (up to 1000 gpm @ 100 psi). The extruded aluminum alloy body shall be hardcoat anodized. Reflective labeling and a UV resistant front rubber bumper with molded fog teeth shall be standard. Operational halo ring shall be available. Nozzle shall provide variable pattern selection from straight stream to wide protective fog. Nozzle shall have laser engraved serial number and a 5-year warranty.

Master Stream 1000 Selectable Series - Selectable Gallonage combination fog and straight stream Master Stream nozzle with multiple constant gallonage settings of 250, 350, 500, 750, 1000 gpm @ 100 psi shall be provided. The extruded aluminum alloy body shall be hardcoat anodized. Reflective labeling, and a UV resistant front rubber bumper with molded fog teeth shall be standard. Nozzle shall allow easy field flushing without tools and provide variable pattern selection from straight stream to wide protective fog. Nozzle shall have laser engraved serial number and a 5-year warranty.

Master Stream 1000 Automatic Series - Constant pressure/variable gallonage automatic combination fog and straight stream Master Stream nozzle with an automatic

pressure mechanism that maintains a constant pressure throughout the nozzle's flow range (150-1000 gpm) @ 100 psi shall be provided. The extruded aluminum alloy body shall be hardcoat anodized. Reflective labeling and a UV resistant front rubber bumper with molded fog teeth shall be standard. Nozzle shall allow easy field flushing without tools and provide variable pattern selection from straight stream to wide protective fog. Electrically operated models shall be available (specify). Nozzle shall have laser engraved serial number and a 5-year warranty.

Master Stream 1250 Small Body Automatic Series - Constant pressure/variable gallonage automatic combination fog and straight stream Master Stream nozzle with an automatic pressure mechanism that maintains a constant pressure throughout the nozzle's flow range (150-1250 gpm) @ 100 psi shall be provided. The extruded aluminum alloy body shall be hardcoat anodized. Reflective labeling and a UV resistant front rubber bumper with molded fog teeth shall be standard. Nozzle shall allow easy field flushing without tools and provide variable pattern selection from straight stream to wide protective fog. Electrically operated models shall be available (specify). Nozzle shall have laser engraved serial number and a 5-year warranty.

Master Stream 1250 Automatic Series - Constant pressure/variable gallonage automatic combination fog and straight stream Master Stream nozzle with an automatic pressure mechanism that maintains a constant pressure throughout the nozzle's flow range (150-1250 gpm) shall be provided. User adjustable pressure control shall allow nozzle pressure adjustment of 70-120 psi. The extruded aluminum alloy body shall be hardcoat anodized. Reflective labeling and a UV resistant front rubber bumper with molded fog teeth shall be standard. Nozzle shall allow easy field flushing without tools and provide variable pattern selection from straight stream to wide protective fog. Electrically operated models shall be available (specify). Nozzle shall have laser engraved serial number and a 5-year warranty.

Master Stream 1500 Automatic Series - Constant pressure/variable gallonage automatic combination fog and straight stream Master Stream nozzle with an automatic pressure mechanism that maintains a constant pressure throughout the nozzle's flow range (300-1500 gpm) shall be provided. User adjustable pressure control shall hallow nozzle pressure adjustment of 70-120 psi. The extruded aluminum alloy body shall be hardcoat anodized. Reflective labeling and a UV resistant front rubber bumper with molded fog teeth shall be standard. Nozzle shall allow easy field flushing without tools and provide variable pattern selection from straight stream to wide protective fog. Electrically operated models shall be available (specify). Nozzle shall have laser engraved serial number and a 5-year warranty.

Master Stream 2000 Automatic Series - Constant pressure/variable gallonage automatic combination fog and straight stream Master Stream nozzle with an automatic pressure mechanism that maintains a constant pressure throughout the nozzle's flow range (300-2000 gpm) shall be provided. User adjustable pressure control shall hallow nozzle pressure adjustment of 80-120 psi. The extruded aluminum alloy body shall be hardcoat anodized. Reflective labeling and a UV resistant front rubber bumper with molded fog teeth shall be standard. Nozzle shall allow easy field flushing without tools and provide variable pattern selection from straight stream to wide protective fog. Electrically operated models shall be available (specify). Nozzle shall have laser engraved serial number and a 5-year warranty.

Max-Force Automatic Series - Lightweight fog and straight stream nozzles with constant pressure/variable gallonage operation shall be provided. Nozzles shall have a molded rubber bumper with "power fog" teeth, detent flow control (hand-held models only). The nozzle shall have a dual pressure selector that allows for 100 psi or 55 psi pressure operation. The extruded aluminum alloy body shall be hardcoat anodized and reflective labeling shall be standard. The nozzle shall have a full-time swivel inlet (hand-held models only), flush without shutting down and meet NFPA 1964 (2008 edition). Color-coded, injection molded nylon pistol grips and valve handle covers shall be available (hand-held models only). Nozzle shall have laser engraved serial number and a 5-year warranty.

Max-Flow Fixed Gallonage Series - Lightweight fog and straight stream nozzles with fixed gallonage operation of 500 gpm @ 100 psi shall be provided. Nozzles shall have a molded rubber bumper with "power fog" teeth, detent flow control (hand-held models only). The extruded aluminum alloy body shall be hardcoat anodized, and reflective labeling shall be standard. The nozzle shall have a full-time swivel inlet (hand-held models only), flush without shutting down and meet NFPA 1964 (2008 edition). Color-coded injection molded nylon pistol grips and valve handle covers shall be available (hand-held models only). Nozzle shall have laser engraved serial number and a 5-year warranty.

Max-Matic Automatic Series - Lightweight fog and straight stream nozzles with constant pressure/variable gallonage operation of 100-500 gpm @ 100 psi or 100-500 gpm @ 80 psi (specify) shall be provided. Nozzles shall have a molded rubber bumper with "power fog" teeth, detent flow control (hand-held models only). The extruded aluminum alloy body shall be hardcoat anodized, and reflective labeling shall be standard. The nozzle shall have a full-time swivel inlet (hand-held models only), flush without shutting down and meet NFPA 1964 (2008 edition). Color-coded injection molded nylon pistol grips and valve handle covers shall be available (hand-held models only). Nozzle shall have laser engraved serial number and a 5-year warranty.

METRO 1 Series - Lightweight fog and straight stream nozzles with fixed gallonage setting and 7 user selected calibrated flow and pressure baffles allowing for 14 different flow and pressure combinations shall be provided. Nozzles shall have a molded rubber bumper with "power fog" teeth or stainless steel spinning teeth (specify), a stainless steel slide valve with detent flow control, (except tip-only models) and inlet debris screen. The extruded aluminum alloy body shall be hardcoat anodized and reflective labeling shall be standard. The nozzle shall flush without shutting down and meets the flow and performance criteria of - NFPA 1964 (2008 edition). Color-coded, injection molded nylon pistol grips and valve handle covers shall be available (except tip-only models). Nozzle shall accept the FJ-MX-HM multi-expansion and FJ-HM, FJ-LX-HM low-expansion foam attachments. Nozzle shall have laser engraved serial number and a 5-year warranty.

METRO 2 Series - Lightweight fog and straight stream nozzles with fixed gallonage setting and 5 user selected calibrated flow and pressure baffles allowing for 10 different flow and pressure combinations shall be provided. Nozzles shall have a heavy duty nylon valve ball (except tip only models). Nozzles shall have a molded rubber bumper with "power fog" teeth. The extruded aluminum alloy body shall be hardcoat anodized and reflective labeling shall be standard. The nozzle shall flush without shutting down and meets the flow and performance criteria of - NFPA 1964 (2008 edition). Color-coded, injection molded nylon pistol grips and valve handle covers shall be available (except tip-only models). Nozzle shall accept the FJ-HMX multi-expansion and FJ-H low-expansion foam attachments. Nozzle shall have laser engraved serial number and a 5-year warranty.

Mid-Force Series - Lightweight fog and straight stream nozzles with constant pressure/variable gallonage operation shall be provided. Nozzles shall have a molded rubber bumper with "power fog" teeth or stainless steel spinning teeth (specify), a stainless steel slide valve with detent flow control (except tip-only models), and inlet debris screen. The nozzle shall have a dual pressure selector that allows for 100 psi or 55 psi pressure operation or a low-pressure version that allows 75 psi or 45 psi pressure operation (specify). The extruded aluminum alloy body shall be hardcoat anodized and reflective labeling shall be standard. The nozzle shall have a full-time swivel inlet (except tip-only models), flush without shutting down and meet NFPA 1964 (2008 edition). Color-coded, injection molded nylon pistol grips and valve handle covers (except tip-only models) shall be available and nozzles shall accept the FJ-HM, FJ-LX-HM low and FJ-MX-HM multi-expansion foam attachments. Nozzle shall have laser engraved serial number and a 5-year warranty.

Mid-Matic Series - Lightweight fog and straight stream nozzles with constant pressure/variable gallonage operation with a flow range of 70-200 gpm @ 100 psi or 70-200 gpm @ 75 psi (specify) shall be provided. Nozzles shall have a molded rubber bumper with "power fog" teeth or stainless steel spinning teeth (specify), a stainless steel slide valve with detent flow control, (except tip-only models) and inlet debris screen. The extruded aluminum alloy body shall be hardcoat anodized, and reflective labeling shall be standard. The nozzle shall have a full-time swivel inlet (except tip-only models), flush without shutting down and meet NFPA 1964 (2008 edition). Color-coded, injection molded nylon pistol grips and valve handle covers (except tip-only models) shall be available. Nozzles shall accept the FJ-HM, FJ-LX-HM low and FJ-MX-HM multi-expansion foam attachments. Nozzle shall have laser engraved serial number and a 5-year warranty.

Monsoon® Monitor Series - Rated up to 2000 gpm, and 200 psi, the Monsoon is a manually operated fixed station or truck mounted monitor with manual control of rotation and elevation angle. The hand wheel shall provide elevation control from 90° above and 45° below horizontal through a segmented waterway with minimal waterway turning angles and built-in stream shaping vane. The unit shall have hand wheel operated 360° continuous rotational travel, stainless steel worm gear, or tiller bar rotation (specify), user installed travel limit stops. The monitor shall be hardcoat anodized aluminum alloy and shall have a silver powder coat finish inside and out. Unit shall have serial number and be covered by a 5-year warranty.

Monsoon® RC Monitor Series - Rated up to 2000 gpm, and 200 psi, the Monsoon RC is a remotely controlled fixed station or truck mounted monitor with electric remote control of rotation, elevation angle and nozzle pattern. The unit shall have an electrically operated elevation control from 90° above and 45° below horizontal through a segmented waterway with minimal waterway turning angles and built-in stream shaping vane. The unit shall have an electrically operated 450° horizontal rotational travel, stainless steel worm gear, and user installed travel limit stops. User operation controls shall be mounted on the monitor, and shall include rotation, elevation, and nozzle stream pattern control programmable park and oscillate and two auxiliary controls. Optional remote wired,

tethered and wireless remote controls shall be available. The monitor shall be hardcoat anodized aluminum alloy and shall have a silver powder coat finish inside and out. Various flange and threaded inlets including locking quick connect shall be available (specify). Unit shall have serial number and be covered by a 5-year warranty.

Multi-Expansion Foam Attachment - Air aspirating nozzle foam attachment shall be constructed of corrosion resistant, high strength materials with stainless steel screen and components. Attachment shall attach to appropriate nozzle bumper with a locking mechanism. Unit shall have reflective labeling, engraved serial number, and be covered by a 5-year warranty.

NY Stacked Smooth Bore Tips - Smooth bore tips shall be constructed of corrosion resistant, hard coat anodized aluminum alloy. Each tip shall be laser engraved with flow/pressure chart, and orifice size. Tip sizes shall be 15/16" and ½". Inlet shall be 1-½". Unit shall be covered by a 5-year warranty.

PRESSURE RELIEF VALVE - TFT's Pressure Relief Valve shall be adjustable from 90 to 300 psi (6 to 21 bar) with easy to see increments of 90, 125, 150, 200, 250, and 300 psi. Each pressure relief valve shall include an OFF position. The pressure relief valve shall be NFPA 1901-2009 compliant. The aluminum casting shall be hardcoat anodized, and TFT-powder coat finished inside and out for maximum corrosion protection. The units shall be available to install on Darley, Waterous, or Hale bolt hole patterns for direct use on pump flanges. Housings shall be available with 2" male pipe thread, 2.5" male NH thread, or 2.5" Victaulic® connection on the discharge. Add 1.5" to depth for models A1850 and A1860. The pressure relief valves shall be covered by a written five-year warranty.

PRO/pak® Series - The portable foam system with yellow two and one half gallon concentrate tank shall be constructed of high impact plastic with metallic components of hard coat anodized aluminum alloy and stainless steel. The unit will include three quick-connect nozzles for straight stream, low and medium expansion applications, a shoulder carrying strap, and quick connect discharge hose. The unit shall operate with inlet pressures from 40-500 psi and a nominal flow of 12 gpm @ 100 psi. The twist grip valve shall control flow, as well as acting as a carrying handle, and a large easy open fill port, concentrate indicator and screen strainer shall be included. The field changeable percentage knob shall offer user selectable proportioning ratios of 1%, 3% or 6%, and a user selectable range from 0.1% to 1%. Unit shall have operation instructions permanently applied, laser engraved serial number, and a 5-year warranty.

Protector Series Industrial Monitor - Rated up to 1250 gpm, the Protector is an industrial-type fixed station monitor. The unit shall have a patented waterway design with integral stream shaping vane to reduce friction loss and have an optional built-in on/off valve with position indicator (specify). The unit can be directly bolted to many common pipe flanges (specify flange size) and the outlet shall be available with 2-½" male threads. Threaded ports shall be provided for drain valve and pressure gauge installation and maximum operating pressure shall be 250 psi. The unit shall require no grease or other maintenance and swiveling elements and seals (including valve seat) shall be easily replaced. The Protector shall be hardcoat anodized aluminum alloy. The monitor shall have a powder coat finish inside and out. Swivel clamps, 3" valve ball, trunnions, and hardware shall be stainless steel. Unit shall have laser engraved serial number and a 5-year warranty.

QuadraFog® Selectable Gallonage Nozzle Series - Lightweight fog and straight stream nozzles with multiple constant gallonage settings. Nozzles shall have fixed fog teeth or stainless steel spinning teeth (specify), a protective front bumper, and shall be available with either stainless steel ball shut-off and quick-change polymer valve seat, or twist shut-off. Valve handle shall be produced from high strength molded nylon and shall be provided with positive open and close stops. The extruded aluminum alloy body shall be hardcoat anodized with stainless steel components, and reflective labeling shall be standard. The nozzle shall have a swivel inlet (except tip-only models), flush without shutting down and meet NFPA 1964 (2008 edition). Color-coded, injection molded nylon pistol grips and valve handle covers shall be available (except tip-only models), and nozzles shall accept the low expansion and multi-expansion foam attachments. Nozzle shall have laser engraved serial number and a 5-year warranty.

Quad Stacked Smooth Bore Tips 2-½" Inlet - Smooth bore tips shall be constructed of corrosion resistant, hard coat anodized aluminum alloy. Inlet shall be 2-½" swivel coupling. Each tip shall be laser engraved with flow/pressure chart, orifice size and thread size. Tip sizes shall be 2", 1.75", 1.5" and 1.375". Unit shall be covered by a 5-year warranty.

Quad Stacked Smooth Bore Tips 3-½" Inlet - Smooth bore tips shall be constructed of corrosion resistant, hard coat anodized aluminum alloy. Inlet shall be 3-½" swivel coupling with integral stream straightener. Each tip shall be laser engraved with flow/pressure chart, orifice size and thread size. Tip sizes shall be 2.75", 2.5", 2.25" and 2". Unit shall be covered by a 5-year warranty.

Quick Connect 90° Elbow – The quick connect elbow shall have a 4-1/2" female coupling for attachment to 4" F NPT, 4" ANSI 150 flange inlet adapter or to TFT VUM Valve Under Monitor with quick connect outlet (adapters and VUM sold separately). The unit shall be constructed of corrosion resistant, hardcoat anodized aluminum alloy and have a silver powder coat finish inside and out. The unit shall have a large carrying handle, a boss for drilling and threading for a drain/bleeder or pressure gauge. Various threaded and Storz outlet connections shall be available (specify). The unit shall have a serial number and be covered by a 5-year warranty.

Quarter-Turn Hydrant Valve - The lightweight quarter-turn ball hydrant valve shall be configured with a 2-1/2" female rocker lug or long handle swivel inlet and 2-1/2" male rigid outlet. The unit shall have quarter-turn aluminum ball valve with full 2-1/2" waterway, and folding Nylon handle with auto-lock feature. A 3/4" NPT female plugged bleeder valve port shall be standard. For corrosion resistance the valve shall be hardcoat anodized and shall have a durable silver powder coat interior and exterior finish. The unit shall be covered by a five-year warranty.

Res-Q-Me® - The Res-Q-Me rescue tool shall include a spring-loaded tool-steel punch for breaking tempered glass and shall have a recessed stainless steel blade for cutting seat belts. The unit shall have a detachable ring that will allow attachment to a key ring, and be capable of quick detachment for use. The punch and blade shall be protected to allow for safe handling. Unit shall be covered by a 5-year warranty.

Res-Q-Rench® - Folding multi-purpose tool shall be made from lightweight and durable nylon with stainless steel components. The unit shall include carbide tip point for breaking tempered glass, a spanner wrench to fit 1-½" to 2-½" rocker lug couplings and most 4" and 5" Storz couplings. A durable, recessed stainless steel blade for cutting seat belts and other web-type materials shall be included. A prying tool, oxygen bottle valve wrench, and residential gas valve shut off that fits many gas valves shall be standard. Unit shall covered by a 5-year warranty.

Selectable Electric Remote Nozzle Series - Lightweight fog and straight stream nozzles with constant gallonage settings that may be infinitely adjusted from 15-120 gpm @ 100 psi. Nozzles shall have a molded rubber bumper with "power fog" teeth. The extruded aluminum alloy body shall be hardcoat anodized and reflective labeling shall be standard. The nozzle shall flush without shutting down. The electric motor shall have a manual override. Nozzles shall accept the FJ-U low and FJ-UMX multi-expansion foam attachments. Standard nozzle inlet is 1-1/2" female swivel. Nozzle shall have laser engraved serial number and a 5-year warranty.

SHO-FLOW® Electronic Flow Indicator - The SHO-FLOW Electronic indicator shall have digital display of pressure and flow in one unit. The body shall be lightweight machined hard coat anodized aluminum. The unit can be installed behind a nozzle, at the pump panel, or anywhere flow or pressure measurement is required. The unit shall be powered by a 9-volt lithium long life battery and shall be capable of cold temperature operation. User programmable high-flow and low-flow set points to warn operator of improper water flow shall be standard. 1-½ or 2-½ NH, BSP and NPSH inlet and outlet threads shall be available (specify). The unit shall have female swivel inlet and male outlet. Unit shall be covered by a 5-year warranty.

Smooth Bore Insert Set - Set shall include 7/8", 15/16", 1", and 1-1/8" orifice smooth bore inserts made of durable, polymer material and shall have orifice size laser engraved. Units shall be capable of being installed in the stainless steel ball of the 140 series ball valves and outlet waterway of the VIT series valves. Insert set shall be covered by a 5-year warranty.

Smooth Bore Tips 1" Inlet Set (Forestry) - Set of six interchangeable smooth bore tips shall be constructed of corrosion resistant, high strength nylon. One 1" hard coat anodized aluminum alloy coupling with rubber gasket shall be included. Smooth bore tips shall be marked with orifice size. Smooth bore tip set shall include one tip each of 1/8", 3/16", 1/4", 5/16", 3/8" and 7/16" orifice size. Units shall be covered by a 5-year warranty.

Smooth Bore Tip 1-½" Inlet - Smooth bore tips shall be constructed of corrosion resistant, hard coat anodized aluminum alloy. Smooth bore tips shall be laser engraved with orifice size and inlet thread size. 1.5" inlet is standard with a choice of 1/2", 5/8", 3/4", 7/8", 15/16", 1", 1-1/8" and 1-1/4" orifice sizes (specify). Unit shall be covered by a 5-year warranty.

Smooth Bore Slug Tip 1-½" Inlet & Outlet - Smooth bore slug tips shall be constructed of corrosion resistant, hard coat anodized aluminum alloy. Smooth bore tips shall be laser engraved with orifice size, flow and pressure chart, and inlet/outlet thread size. 1-½" inlet is standard with a choice of 7/8" or 15/16" orifice sizes (specify). A set screw for secure attachment to valve shall be included. Unit shall be covered by a 5-year warranty.

Spanner Wrench Set w/Bracket (A3810) - Set of 4 spanner wrenches and mounting bracket shall be made from aluminum alloy. Spanner shall fit most 2-½" through 6" rocker lug and Storz couplings. Unit shall be covered by a 5-year warranty.

Spanner Wrench - Spanner wrench shall be made from aluminum alloy. Spanner shall fit most 2-½" through 5" rocker lug and Storz couplings and shall have adjustable tab for Storz lock release. Unit shall be covered by a 5-year warranty.

Spanner Wrench – Universal (A3813) - Spanner wrench shall be made from lightweight cast aluminum alloy. Spanner shall fit most 1-1/4" through 4" couplings. Features shall include pin detail, window jimmy, gas cock slot, hammer head and hanger loop. Unit shall be covered by a 5-year warranty.

Spanner Wrench Set – Universal (A3840) - Set of 2 universal spanner wrenches and mounting bracket and shall be made from lightweight cast aluminum alloy. Spanner shall fit most 1-1/4" through 4" couplings. Bracket has quick, snap action releases. Unit shall be covered by a 5-year warranty.

Spanner/Hydrant Wrench Set (A3845) – Set of 2 universal spanner wrenches, one single head hydrant wrench A3835, and mounting bracket and shall be made from lightweight cast aluminum alloy. Spanner shall fit most 1-1/4" through 4" couplings. Bracket has quick, snap action releases. Unit shall be covered by a 5-year warranty.

Spanner/Hydrant Wrench Set (A3850) – Set of 2 universal spanner wrenches, one dual head hydrant wrench A3800, and mounting bracket made from lightweight cast aluminum alloy. Spanner shall fit most 1-1/4" through 4" couplings. Bracket has quick, snap action releases. Unit shall be covered by a 5-year warranty.

Swiveling Detent Elbow - 30° elbows shall be constructed of corrosion resistant, hard coat anodized aluminum alloy, with stainless steel components. The 30° inlet elbow shall swivel 360° and have multiple positive detents to prevent hose kinking and coupling stress. The units shall meet a 900 psi hydrostatic strength test. Elbows shall meet NFPA 1965 (2009 edition). The unit shall have a silver powder coat finish inside and out. All hose couplings shall use a polymer bearing ring for prevention of galvanic corrosion. Unit shall have a chain/lanyard attachment anchor point, be available with a choice of hose threaded or Storz couplings (specify), have a serial number, and be covered by a 5-year warranty.

Suction Hose – Suction hose shall be constructed of PVC with hardcoat anodized couplings attached using stainless steel bands and nylon binding strips. All swivel couplings shall use a polymer bearing ring for prevention of galvanic corrosion. Couplings shall be available with threaded or Storz couplings (specify). Standard length is 10 feet, other lengths available upon request. The suction hose assemblies shall be covered by a 5-year warranty.

Suction Strainer (Barrel) - The strainer shall be made from molded nylon with hard anodized aluminum couplings with corrosion resistant nylon bearing strip. Strainer shall have large eye for rope attachment. Strainer shall have serial number and a 5-year warranty .

Suction Strainer (Low Level) - The strainer shall be made from hard anodized and powder coated aluminum alloy and stainless steel. Suction hose coupling shall be attached with corrosion resistant nylon bearing strip, allowing easy swiveling. A large clog-resistant stainless steel filter screen shall be standard and allow clearing without tools. Low level strainer shall be designed to allow suction from minimal depths with minimal friction loss. Suction hose coupling pivot shall have 45° range of motion. Optional jet siphon shall have 1-½" female swivel connection, and plug with lanyard attached. A large carrying handle shall be standard. Strainer shall have serial number and a 5-year warranty.

Tapered Reducing Adapter - Tapered nozzle adapter shall be constructed of corrosion resistant, hard coat anodized aluminum alloy. Units shall be available in 2-½" female inlet by 1-½" male outlet or 1-½" female inlet by 1" male outlet (specify) and shall have smooth internal taper. Unit shall be covered by a 5-year warranty.

ThunderFog® Selectable Gallonage Nozzle Series - Lightweight fog and straight stream nozzles with multiple constant gallonage settings. Nozzles shall have fixed fog teeth or stainless steel spinning teeth (specify), a protective front bumper, and shall be available with either stainless steel ball shut-off and quick-change polymer valve seat, or twist shut-off. Valve handle shall be produced from high strength molded nylon and shall be provided with positive open and close stops. The extruded aluminum alloy body shall be hardcoat anodized with stainless steel components, and reflective labeling shall be standard. The nozzle shall have a swivel inlet (except tip-only models), flush without shutting down and meet NFPA 1964 (2008 edition). Color-coded, injection molded nylon pistol grips and handle covers shall be available (except tip-only models), and nozzles shall accept the FJ-MX-FT multi-expansion foam attachment. Nozzle shall have laser engraved serial number and a 5-year warranty.

Tornado® Monitor Series - Rated up to 500 gpm, the Tornado is a truck mounted monitor. The tiller handle shall provide elevation control from 90° above horizontal to 45° below horizontal. The unit shall have a full 360° continuous horizontal rotation with locking knob. User installed travel limit stops shall be included. The monitor shall be constructed of hard coat anodized aluminum alloy and shall have a silver powder coat finish inside and out. Various flange and threaded inlets including locking quick connect shall be available (specify). Unit shall have serial number and a 5-year warranty.

Tornado® RC Monitor Series - Rated up to 500 gpm, the Tornado is a remotely controlled truck mounted monitor with electric remote control of rotation and elevation angle and nozzle pattern. The electric motor shall provide elevation control from 90° above horizontal to 45° below horizontal. The unit shall have an electronically operated 370° horizontal rotational travel, user installed travel limit stops, stainless steel worm gear drive with manual override knobs, and shall have grease zerk fittings for easy service and lubrication. User operation controls shall be mounted on the monitor, and shall include rotation, elevation, and nozzle stream pattern control programmable park and oscillate and two auxiliary controls. Optional remote wired, tethered and wireless remote controls shall be available. The discharge elbow shall include an integral stream straightener. The monitor shall be constructed of hard coat anodized aluminum alloy and shall have a silver powder coat finish inside and out. Various flange and threaded inlets including locking quick connect shall be available (specify). Unit shall have serial number and a 5-year warranty.

Triple Stacked Smooth Bore Tips 1-½" Inlet - Smooth bore tips shall be constructed of corrosion resistant, hard coat anodized aluminum alloy. Each tip shall be laser engraved with flow/pressure chart, orifice size and thread size. Tip sizes shall be 1.25", 1.125", and 1". Unit shall be covered by a 5-year warranty.

Triple Stacked Smooth Bore Tips 2-½" Inlet - Smooth bore tips shall be constructed of corrosion resistant, hard coat anodized aluminum alloy. Inlet shall be 2-½" swivel coupling. Each tip shall be laser engraved with flow/pressure chart, orifice size and thread size. Tip sizes shall be 1.5", 1.25" and 1". Unit shall be covered by a 5-year warranty.

Twister® Dual Gallonage Series - Lightweight fog and straight stream nozzles with dual gallonage settings shall be provided. Nozzles shall have fixed fog teeth, a protective front bumper, twist shut-off and shall be available with stainless steel ball shut-off and quick-change polymer valve seat. Valve handle shall be produced from high strength molded nylon and shall be provided with positive open and close stops. The extruded aluminum alloy body shall be hardcoat anodized and reflective labeling shall be standard. Color-coded, injection molded nylon pistol grips and valve handle covers shall be available (except for tip only models) and nozzles shall accept the FJ-MX-D (1") and FJ-MX-F (1-½") multi-expansion foam attachment. Nozzle shall have laser engraved serial number and a 5-year warranty.

Typhoon Monitor Series - Rated up to 1500 gpm, and 200 psi, the Typhoon is a manually operated fixed station or truck mounted monitor with manual control of rotation and elevation angle. A handwheel or tiller handle with locking knob (specify) shall provide elevation control from 90 degrees above to 45 degrees below horizontal. A handwheel or tiller handle with locking knob (specify) shall provide 360 degree continuous horizontal rotation. User installed travel limit stops shall be included. The discharge elbow shall include an integral stream straightener. The monitor shall be constructed of hardcoat anodized aluminum alloy and shall have a silver powdercoat finish inside and out. Various flange and threaded inlets including locking quick connect shall be available (specify). Unit shall have serial number and a 5 year warranty.

Typhoon RC Monitor Series - Rated up to 1500 gpm, and 200 psi, the Typhoon RC is a remotely controlled fixed station or truck mounted monitor with electric remote control of horizontal rotation, elevation, and nozzle pattern. The unit shall have an electrically operated elevation control from 45 degrees below horizontal up to a maximum of 45 degrees past vertical for a total possible travel of 215 degrees (specify). Unit shall have user installed elevation travel limit stops than can reduce the travel to 20 degrees past vertical or less in 10 degree increments. The unit shall have an electrically operated 450 degree maximum horizontal travel, stainless steel worm gear, and user installed horizontal travel limit stops in 10 degree increments. Knobs shall be mounted on the vertical and horizontal drives for manual override. User operation controls shall be mounted on the monitor, and shall include rotation, elevation, and nozzle stream pattern control, programmable park and oscillate and two auxiliary controls. Optional remote wired, tethered, and wireless remote controls shall be available. The discharge elbow shall include an integral stream straightener. The monitor shall be constructed of hardcoat anodized aluminum alloy and shall have a silver powder coat finish inside and out. Various flange and threaded inlets including locking quick connect shall be available (specify). Unit shall have serial number and a 5 year warranty.

Ultimatic Series - Lightweight fog and straight stream nozzles with constant pressure/variable gallonage operation of 10-125 gpm @ 100 psi or 10-100 gpm @ 75 psi (specify) shall be provided. Nozzles shall have a molded rubber bumper with "power fog" teeth, a stainless steel slide valve with detent flow control, (except tip-only models) and inlet debris screen. The extruded aluminum alloy body shall be hardcoat anodized, and reflective labeling shall be standard. The nozzle shall have a full-time swivel inlet (except tip-only models) and the ability to flush without shutting down. Color-coded, injection molded nylon pistol grips and valve handle covers shall be available. Nozzles shall accept the FJ-U low and FJ-UMX multi-expansion foam attachments. Female inlets of 1" and 1-1/2" shall be available (specify). Nozzle shall have laser engraved serial number and a 5-year warranty.

VIT Valve Integral Tip Ball Valve Series With Inserts - Valve body shall be constructed of corrosion resistant, hardcoat anodized extruded aluminum alloy. Lightweight valve with detent flow control shall include 7/8", 15/16", 1", and 1 1/8" orifice inserts made of durable, lightweight nylon material and shall have orifice size laser engraved. Discharge shall have 1-½" male thread for coupling to a combination nozzle. Internal waterway shall be 1.375". Color-coded, injection molded nylon pistol grips and valve handle covers shall be available. Rubber covered playpipe handles are available on 2-½" models. Nozzle shall have a full-time swivel 1-1/2" or 2-1/2" inlet (specify), laser engraved serial number, and a 5-year warranty.

VIT Valve Integral Tip Ball Valve Series - Valve body shall be constructed of corrosion resistant, hardcoat anodized extruded aluminum alloy. Lightweight valve with detent flow control shall be available with 7/8", 15/16", 1", 1-1/4" or 1-3/8" orifice (specify). The unit shall have orifice size laser engraved. Discharge shall have 1-½" male thread with retractable outlet thread protector for coupling to a combination nozzle. Internal waterway shall be 1.375" with smooth taper to orifice. Color-coded, injection molded nylon pistol grips and valve handle covers shall be available. Nozzle shall have a full-time swivel 1-1/2" or 2-1/2" inlet (specify), laser engraved serial number, and a 5-year warranty.

VUM Valve Under Monitor Series – Valve shall be designed for use under monitors and have low friction loss through its large, unobstructed waterway. Valve shall be constructed of hard coat anodized aluminum alloy and have silver TFT-powder coat finish inside and out for maximum corrosion protection. Hardware and half-ball valve section shall be stainless steel and shall control water flow at the base of the monitor. Valve inlet base shall be 4" ANSI 150 flange. Various outlets for monitor connection are available including 4" ANSI 150 flange; or straight or 22.5° forward angle for direct TFT monitor connection eliminating one flange (specify). Monitor valve control shall be controlled by a compact gear box mounted hand crank or side handwheel (specify) that meets NFPA 1901 slow-close requirements have a valve position indicator, and handwheel shall be reversible from side to side and shall have shaft extensions available for improved clearance (specify). An optional automatic drain valve (specify) shall be available in the stainless steel half-ball section to assist in draining water after the incoming water pressure is shut off. Four (4) auxiliary ports shall allow installation of straight or elbow 2-½" valves, hose or pipe threaded fittings, (specify) to allow water flow through these connections when the primary monitor valve is opened, closed or in an intermediate position. Blind plugs shall be installed in the auxiliary ports when other connections are not installed. Elbow and straight 2-½" valves shall have field replaceable valve seats, quarter turn tee valve handles with low force to move even under pressure with up to 250 psi (17 bar) maximum operating pressure. Automatic valve lock on 2-½" valve keeps its position while flowing at partial openings and shall be standard. 2-½" elbow valves shall have the ability to allow swiveling up to 45° or to be locked in place and 4-¾" long extensions shall be available where more clearance from the primary monitor valve is desired (specify). Elbow and straight valves shall include a 2-½" to 1-½" reducer with 1-½" cap with lanyard. The unit shall have a serial number and a 5-year warranty.

VUM Valve Under Monitor RC Series – Valve shall be designed for use under monitors and have low friction loss through its large, unobstructed waterway. Valve shall be constructed of hard coat anodized aluminum alloy and have silver TFT-powder coat finish inside and out for maximum corrosion protection. Hardware and half-ball valve section shall be stainless steel and shall control water flow at the base of the monitor. Valve inlet base shall be 4" ANSI 150 flange. Various outlets for monitor connection are available including 4" ANSI 150 flange; or straight or 22.5° forward angle for direct TFT monitor connection eliminating one flange (specify). Monitor valve control shall controlled by an electric motor with manual override knob, manual valve position indicator, and shall meet NFPA 1901 slow-close requirements. The override knob shall be reversible from side to side and shall have shaft extensions available for improved clearance (specify). Electric control of the valve shall be by included control box which shall display open, closed, and intermediate valve positions. Control box and motor shall be waterproof. Electric control of the valve can be controlled from any TFT RC monitor control auxiliary 2 valve open/close button. An optional automatic drain valve (specify) shall be available in the stainless steel half-ball section to assist in draining water after the incoming water pressure is shut off. Four (4) auxiliary ports shall allow installation of straight or elbow 2-½" valves, hose or pipe threaded fittings, (specify) to allow water flow through these connections when the primary monitor valve is opened, closed or in an intermediate position. Blind plugs shall be installed in the auxiliary ports when other connections are not installed. Elbow and straight 2-½" valves shall have field replaceable valve seats, quarter turn valve tee handles with low force to move even under pressure with up to 250 psi (17 bar) maximum operating pressure. Automatic valve lock on 2-½" valve keeps its position while flowing at partial openings and shall be standard. 2-½" elbow valves shall have the ability to allow swiveling up to 45° or to be locked in place and 4-¾" long extensions shall be available where more clearance from the primary monitor valve is desired (specify). Elbow and straight valves shall include a 2-½" to 1-½" reducer with 1-½" cap with lanyard. The unit shall have a serial number and a 5-year warranty.

Water Thief 2-½" by 1-½" - Water Thief shall have full 2-½ and 1-½ inch waterways, field replaceable valve seats, quarter turn color coded valve handles with low force to move even under pressure with up to 250 psi (17 bar) maximum operating pressure from either side of the valves. Automatic valve lock on 2-½ inch valve keeps its position while flowing at partial openings and shall be standard. Special internal contour on 1-½" valves keeps them in position while flowing shall be standard. Units shall include three folding valve handles to minimize storage space. Pipe threaded port for pressure gauge shall be included. Unit shall have a carrying strap. Aluminum casting shall be hardcoat anodized and silver TFT-powder coat finish inside and out for maximum corrosion protection. The unit shall have a serial number and a 5-year warranty.

Water Thief and Siamese - LDH by 2-½" LDH Water Thief and Siamese shall have full 2-½" waterway valved ports with field replaceable valve seats, color coded quarter turn valve handles with low force to move even under pressure with up to 250 psi (17 bar) maximum operating pressure from either side of the valves. Automatic valve lock on 2-½" inch valves keep their position while flowing at partial openings and shall be standard. Units shall include two folding valve handles to minimize storage space. Large diameter inlet and outlet ports shall have full flow through, corrosion resistant polymer bearing strip, and be available in threaded or Storz connections (specify). Unit shall have a strap for carrying and dragging hose. Aluminum casting shall be hardcoat anodized and silver TFT-powder coat finish inside and out for maximum corrosion protection. Water thief shall have male thread on 2-½" valved ports and Siamese shall have female swivel threaded connections on 2-½" valved ports. Maximum operating pressure of the unit shall be 250 psi. An optional, adjustable pressure relief valve shall be available. The unit shall have a serial number and a 5-year warranty.

ZM Industrial Fixed Gallonage Nozzle Series - A fixed gallonage adjustable straight stream/fog nozzle available with 500, 750, 1000, or 1250 gpm @100 psi, or user specified Kfactor flow setting (specify) and 2-½" female inlet shall be provided. Nozzle shall be capable of flowing water or foam solution. Fog angle is user adjustable between 120º wide fog and straight stream. Unit's baffle shall be removable with a wrench for flushing debris. Unit requires no grease or other maintenance. The unit shall be hardcoat anodized ANSI A356.0.T6 aluminum. Unit shall have reflective labeling, engraved serial number, and be covered by a 5-year warranty.

ZN Industrial Nozzle Series - A fixed gallonage fog nozzle rated at 100 psi is available with your choice of 350, 500 or 750 gpm. Fog angle is user adjustable between 120º wide fog and straight stream. Units baffle shall be removable with a wrench for flushing debris. Unit requires no grease or other maintenance. The stream shaper shall be made from non-corroding high temperature polymer. The rubber bumper shall be UV resistant. Unit shall be hardcoat anodized ANSI A356.0.T6 aluminum. Unit shall have reflective labeling, engraved serial number, and be covered by a 5-year warranty.

ZO Industrial Fixed Gallonage Nozzle Series - A fixed gallonage adjustable straight stream/fog nozzle available with 1250, 1500, 1750, 2000, or 2500 gpm @100 psi (specify). 3-½" female inlet shall be provided. Nozzle shall be capable of flowing water or foam solution. Fog angle is user adjustable between 120º wide fog and straight stream using folding handles to assist pattern change. A locking ring to set the nozzle pattern shall be standard. Unit's baffle shall be removable with a wrench for flushing debris. Unit requires no grease or other maintenance. The unit shall be hardcoat anodized ANSI A356.0.T6 aluminum and shall be powder coated. Unit shall have reflective labeling, engraved serial number, and be covered by a 5-year warranty.