



04-2022

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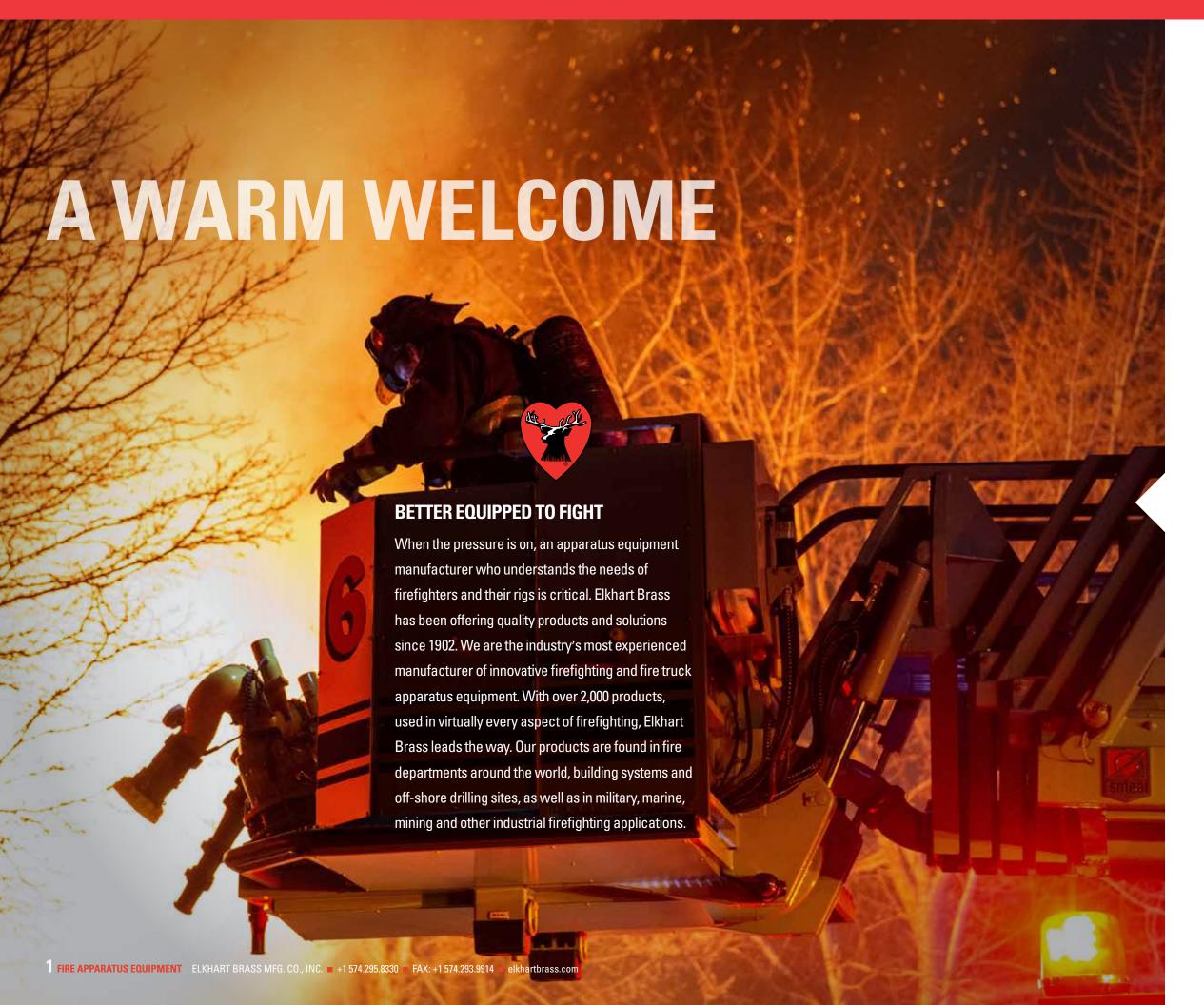
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FIRE APPARATUS EQUIPMENT

MONITORS / NOZZLES / APPARATUS VALVES & FITTINGS / ACCESSORIES





MONITORS

EXM2 CONTROL

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WHO WE ARE

WE'VE BEEN AROUND

Well known for its commitment to quality, value and customer service, Elkhart Brass celebrated its 100th anniversary in 2002. In 2015, Elkhart Brass was acquired by Safe Fleet creating the leading global provider of safety solutions for fleet vehicles. The combination of Elkhart Brass with FRC, FoamPro, and ROM enables the company to develop integrated systems of monitors, valves, foam proportioning, and electronic controls for the global emergency market. Elkhart Brass still operates at its original site in Elkhart, Indiana, utilizing the in-house foundry where aluminum and brass are poured daily. In addition to manufacturing, Elkhart Brass also specializes in product research and development, engineering, and product testing thanks to 3D rapid prototyping capabilities, a dedicated flow test facility, and a complete product machine shop.

CERTIFICATIONS AND QUALITY

Elkhart Brass is committed to quality, as demonstrated by its ISO-9001 Registered Quality System. Striving for ways to streamline processes while maintaining the quality craftsmanship customers expect, the company has excelled. An on-site foundry assures accurate documentation and quality of materials. On-site testing facilities are also a benefit. Because firefighting is a dangerous occupation, the company makes a serious commitment to you by doing everything in its power to assure that when you use Elkhart Brass products, you have the highest quality and safest equipment available in the industry. As part of that commitment to quality, it continually strives to evaluate and innovate products, including upgrading certification credentials. Contact Elkhart Brass for further details or questions about a specific certification.

WARRANTY

Products are warranted in accordance with and subject to terms and conditions of Seller's standard Warranty Statement in effect on the date the applicable order is submitted. See Warranty Statement on website at www.safefleet.net/documents/ and download Elkhart Brass warranty document or use mobile phone to view here:





FIRE & EMS APPARATUS EDUCATION AND FACT-BASED EQUIPMENT SELECTION

Rig Recon is an ongoing series of short videos breaking the big things down for Fire & EMS apparatus. You can now watch episodes to stay informed about new technologies, trends, and ideas for specifying and designing your best-in-class apparatus.

Watch the entire series at: RigRecon.com





MOBILE APP

EVERYTHING NEEDED FOR FLOW TESTING NOW AT YOUR FINGERTIPS

- Smooth Bore Discharges & Flow/Pressure
- Nozzle Reaction for Smooth Bore Nozzles
- Nozzle Reaction for Fog Nozzles
- Pump Discharge Pressure for standard layouts, with ability to input hose coefficient depending on make and inside diameter
- Pump Discharge Pressure with elevation changes and appliances
- Pump Discharge Pressure for high-rise layouts
- Fire flow formula calculators for both the NFA and lowa Formulas
- Also included in the app are direct links to the Brass Tacks Hard Facts video series and Rig Recon videos

AVAILABLE FOR FREE DOWNLOAD









ELECTRIC WITH WIRELESS CONTROL OPTIONS

Featuring EXM2[™], our advanced operating platform that connects firefighting monitors with Wi-Fi capable programming.

- Multiple flow options up to 5000 gpm (20000 LPM) with matching nozzle
- 12VDC or 24VDC powered with CANbus communication
- Panel mount, joystick or wireless remote control options
 - SIDEWINDER® SD/HD
 - SIDEWINDER® UHP
 - COBRA[™] SD/HD
 - COBRAMAX™
 - BOA™ X2 2000
 - SCORPION®
 - SKYSTREAM™
 - MAGNUM™







ELECTRIC WITH HARDWIRED CONTROL OPTIONS

- Multiple flow options up to 2000 gpm (7550 LPM) when paired with matching nozzle
- 12VDC or 24VDC powered automatic detection technology
- Toggle box or joystick control options
- BRUSHHAWK™
- SCORPION® ELECTRIC



MANUAL CONTROL

Designed for simple, intuitive control, our manual monitors provide a budget conscious solution without sacrificing flow performance.

- Multiple flow options up to 2000 gpm (7550 LPM) when paired with matching nozzle
- Manual control options via handwheels or tiller bar
- STINGER® 2.0
- SIDEWINDER®
- VULCAN™
- SCORPION®

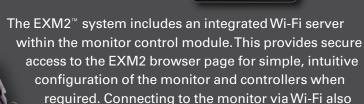


EM MONITORS OVERVIEW



PANEL MOUNT CONTROLLER





allows you to set travel limits, keep out zones and retrieve diagnostic information, all from a Wi-Fi capable tablet or laptop.





WIRELESS HANDHELD CONTROLLER/ GATEWAY



POSITION DISPLAY



MECHANICAL FEATURES:

- Motors and control components sealed to NEMA 4
- Axially aligned thrust bearings for extreme
- Absolute position sensors for precise control
- Manual override control in event of power failure
- Teflon impregnated, hard anodized aluminum alloy waterway
- Extreme torque motors

CONTROL FEATURES:

- 12 or 24VDC Compatible
- Wired or wireless control options
- CANBUS J1939 compatible
- Programmable STOW, DEPLOY and OSCILLATION
- Programmable travel limits and keep out zones
- Programmable travel speeds
- Integrated water valve control



EXM2 INPUT CONTROLLERS

All EXM2 Controllers include:

- Standard monitor controls for UP/DOWN/LEFT/RIGHT
- Dedicated STOW, DEPLOY and OSCILLATE buttons
- Nozzle controls for FOG/ STREAM
- OPEN, CLOSE and PRESET controls for optional Unibody
- AUX button for powering an external device such as a light



PANEL MOUNT CONTROLLER 7010X2

Designed to be mounted on a panel, the controller is hardwired directly to the monitor via CANbus. Compatible with 12 or 24VDC systems and rated to IP67.



WIRELESS HANDHELD CONTROLLER/GATEWAY 7015X2

The IP67 rated wireless remote control includes everything needed to operate a monitor, nozzle and optional Unibody valve from a safe location. The docking station with built-in induction charging system eliminates the need for replaceable batteries. The wireless controller comes preconfigured to communicate via RF to the Gateway Module. The module, with an external antenna, can then be mounted in a location convenient to the apparatus builder. The Gateway connects via CANbus harnesses directly to the monitor.



JOYSTICK CONTROLLER 7030X2

The joystick controller is designed to be surface mounted in the vehicle cab, providing convenient and intuitive control of the monitor. Containing all of the EXM2 monitor controls, the joystick utilizes proportional speed control for precise positioning of the water stream. Operate a valve using the joystick trigger or the OPEN/CLOSE buttons on the mounting plate. Integrating CANbus within the joystick design eliminates the need for an external module, simplifying installation and programming.



POSITION DISPLAY 7051X2

The Position Display provides instant feedback to the operator on the monitor's current position utilizing the signal from the monitor's integrated position



UNIBODY VALVE WITH E14X ACTUATOR

The optional Unibody Valve, compatible with all EXM2 systems, provides on/off or gateable control of the water supply to the monitor. Control the valve with any of the EXM2 input controllers or with an APEX Electric Valve Controller.



PROGRAMMABLE TRAVEL LIMITS AND KEEP OUT **ZONES**

User definable travel limits and keep out zones, programmed and stored in the EXM2 monitor control module, allow you to set parameters that limit the movement of the monitor. These limits are used to ensure the water stream is maintained within a safe area and prevent damage to equipment and personnel.



PROGRAMMABLE DEPLOY AND STOW POSITIONS

The DEPLOY function allows you to move the monitor to a predetermined attack position with the press of a button, while the STOW feature returns the monitor to a programmed home position.



SIDEWINDER EX





MODELS: 7100SDX2 / 7100HDX2

7100X2 Series monitors feature built-in Wi-Fi for simple programming and setup. The EXM2[™] controls, both wired and wireless, provide improved performance and operator control. Specifically designed for rugged applications, the Sidewinder® EXM2 monitors provide flow rates up to 700 gpm (2800 LPM). The EXM2 platform continues to incorporate heavy-duty swivel joints and thrust rods for unprecedented durability.

KEY FEATURES:

- Rated for 700 gpm (2800 LPM)
- 500 psi (34.5 BAR) maximum pressure rating (7100SDX2)
- 600 psi (42 BAR) maximum pressure rating (7100HDX2)
- Teflon impregnated, hard coated aluminum finish
- SD = Standard-duty motors
- HD = Heavy-duty, high torque motors for continuous use applications

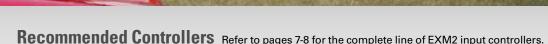
TRAVEL RANGE:

- Vertical -45° to +90° (135°)
- Horizontal L175° to R175° (350°)

INLETS:

- 2.5" female NPT
- 2.5" 150# flange
- 2.5" female BSPT
- 2.5" female BSPP







JOYSTICK CONTROLLER 7030X2



WIRELESS HANDHELD CONTROLLER/GATEWAY 7015X2



PANEL MOUNT CONTROLLER 7010X2



SIDEWINDER EXM2

POSITION DISPLAY 7051X2

Recommended Nozzles & Accessories



6000-200E (D)



6000-700E (D)





QUICK CONNECT 7150

2.5" male outlet

OUTLET:



More Power. Less Water. Designed to meet U.S. Military standards, the compact, ultra high pressure Sidewinder® EXM2 UHP is now being offered for other applications. The Sidewinder UHP EXM2 is an Ultra High Pressure version of the Sidewinder EXM2. Utilizing the EXM2™ operating platform, the 7161X2 Series features built-in Wi-Fi for simple programming and setup. The EXM2 controls, both wired and wireless, provide improved performance and operator control. With flow rates up to 300 gpm (1140 LPM), the 7161 UHP meets the demands of ultra high pressure firefighting.

KEY FEATURES:

- Rated for 300 gpm (1140 LPM)
- 1500 psi (105 BAR) maximum pressure rating
- Teflon impregnated, hard coated aluminum finish

TRAVEL RANGE:

- Vertical -45° to +90° (135°)
- Horizontal L90° to R90° (180°)

INLET:

2.5" female NPT

OUTLET:

• 1.5" male outlet

(E



Recommended Controllers Refer to pages 7-8 for the complete line of EXM2 input controllers.



JOYSTICK CONTROLLER 7030X2



WIRELESS HANDHELD CONTROLLER/GATEWAY 7015X2



PANEL MOUNT CONTROLLER 7010X2



POSITION DISPLAY 7051X2

Recommended Nozzles



5000-14E (D) UHP

- 60 gpm @ 1200 psi (230 LPM @ 82 BAR)
- 100 gpm @ 1500 psi (380 LPM @ 103 BAR)
- Stream pattern remotely controlled via robust electronic motor design
- Hard coated aluminum finish
- 1.5" female swivel inlet

5000-24E (D) UHP

- 300 gpm @ 1200 psi (1140 LPM @ 82 BAR)
- Stream pattern remotely controlled via robust electronic motor design
- Hard coated aluminum finish
- 1.5" female swivel inlet

COBRA EX

Wi-Fi ON BOARD



MODELS: 7200SDX2 / 7200HDX2 7250SDX2 / 7250HDX2

Efficient, high-flow, electric remote controlled; the Cobra™ EXM2 is ideal for fire apparatus, industrial pumper, and aerial vehicles. Utilizing the new EXM2™ operating platform, the 7200X2 Series of monitors feature built-in Wi-Fi for simple programming and setup. The EXM2 controls, both wired and wireless, provide improved performance and operator control. The EXM2 platform continues to incorporate heavy-duty swivel joints and thrust rods for unprecedented durability. The Cobra EXM2 comes standard with permanent magnet DC gear motors but may be upgraded to high power motors. Both motor options are sealed to NEMA 4.

KEY FEATURES:

- Rated for 1250 gpm (4750 LPM) (MODEL 7200SDX2 / 7200HDX2)
- Rated for 1500 gpm (5700 LPM) (MODEL 7250SDX2 / 7250HDX2)
- 500 psi (34.5 BAR) maximum pressure rating
- Durable, lightweight aluminum construction
- Teflon impregnated, hard coated aluminum finish
- SD = Standard-duty motors
- HD = Heavy-duty, high torque motors for continuous use applications

TRAVEL RANGE:

- Vertical -45° to +120° (165°)
- Horizontal L175° to R175° (350°)

INLETS:

- 3" 150# ANSI flange
- 4" 150# ANSI flange
- 3" female NPT
- 3" female BSPT
- **DN80-PN16**

OUTLET:

- 2.5" male outlet (MODEL 7200SDX2 / 7200HDX2)
- 3.5" male outlet (MODEL 7250SDX2 / 7250HDX2)



Recommended Controllers Refer to pages 7-8 for the complete line of EXM2 input controllers.







CONTROLLER

7010X2



Recommended Nozzles & Accessories



SM-1000E (D) SM-1250E (D) SM-1500E (D)



ST-194 STACKED TIPS



LIGHT KIT 7089X2



ELECTRIC EXTENDER MODEL 8598



The CobraMax™ Cowling

The CobraMax thermoformed cowling comes in a choice of matte black, gloss black, gloss red, or gloss gray.

The CobraMax **Lighting Modules**

The backlight module displays the CobraMax logo while the side light modules display the Elkhart Brass Heart logo. Custom etched side lenses can be ordered to allow you to personalize the side light modules with your own logo, department emblem, station number, or other design. The lighting modules can be user-set to a range of colors including white, yellow, green, blue, and red.

The CobraMax Kit

This kit is compatible with any combination of Cobra monitor that has the CobraMax-ready mounting bosses. Compatible combinations include both 7200 and 7250 designations, both SD or HD motor options. Nut or Handwheel Overrides, any currently available base option, and both NHT or BSPP discharge thread options.





The standard Elkhart Brass logo side lens can be replaced with a custom etched lens.

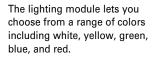
















BOA X2 2000

Wi-Fi ON BOARD



MODEL: 7451X2

The efficient 4" vaned waterway and 3.5" discharge of the BOA™ X2, matched with an SM-2000E Master Stream nozzle, delivers an effective stream while the power of the EXM2[™] provides all of the user-programmable options, including travel limits, oscillation, stow and keep-out zones. It's available with 30° extended vertical travel for enhanced maneuverability of the water stream.



- Rated for 2000 gpm (7550 LPM)
- 200 psi (14 BAR) maximum pressure rating
- 3.5" male outlet
- Durable, lightweight aluminum construction
- Red urethane finish

TRAVEL RANGE:

- Vertical -45° to +120° (165°)
- Horizontal L175° to R175° (350°)

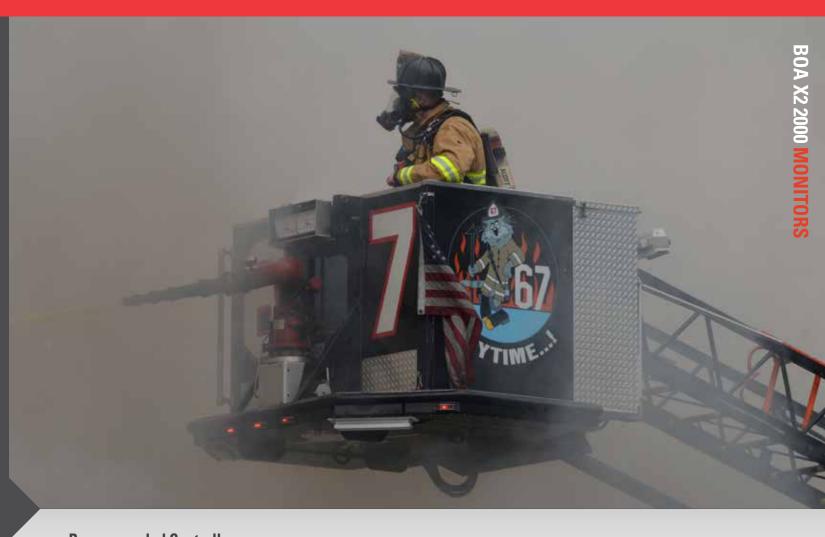
INLETS:

4" 150# ANSI flange

OUTLET:

3.5" male outlet





Recommended Controllers Refer to pages 7-8 for the complete line of EXM2 input controllers.



JOYSTICK CONTROLLER



PANEL MOUNT CONTROLLER



WIRELESS HANDHELD CONTROLLER/GATEWAY



POSITION DISPLAY

Recommended Nozzles & Accessories



SM-2000E (D)



ST-195 STACKED TIPS



284-A STREAM SHAPER



252-8 FOAM TUBE



Efficient, high-flow, electric remote controlled, the Scorpion® EXM2 monitor is ideal for fire apparatus, ARFF industrial pumper, and de-icing vehicles and is a high flow addition to the EXM2™ product family. Utilizing the new EXM2 operating platform, the 7400X2 features built-in Wi-Fi for simple programming and setup. The EXM2 controls, both wired and wireless, provide improved performance and operator control. The EXM2 platform continues to incorporate heavy-duty swivel joints and thrust rods for unprecedented durability.

TRAVEL RANGE:

- Vertical -45° to +90° (135°)
- Horizontal L175° to R175° (350°)

INLETS:

- 4" 150# ANSI flange
- DN100-PN16

OUTLET:

3.5" male outlet



Recommended Controllers Refer to pages 7-8 for the complete line of EXM2 input controllers.



PANEL MOUNT CONTROLLER 7010X2



WIRELESS HANDHELD CONTROLLER/GATEWAY 7015X2



POSITION DISPLAY 7051X2

Recommended Nozzles & Accessories



SM-2000E (D)



ST-195 STACKED TIP



284-A STREAM SHAPER



LIGHT KIT 7092X2

 $C \in$

SKYSTREAM EM

Wi.Fi ON BOARD



MODEL: 7500X2

Extreme flow, electric remote controlled, the SkyStream™ EXM2 monitor is ideal for fire apparatus, ARFF industrial pumpers, and aerial vehicles. The SkyStream EXM2 provides an option for extreme flow applications. Utilizing the new EXM2™ operating platform, the 7500X2 features built-in Wi-Fi for simple programming and setup. The EXM2 controls, both wired and wireless,

provide improved performance and operator control.
The EXM2 platform continues to incorporate heavy-duty swivel joints and thrust rods for unprecedented durability.



- Rated for 3000 gpm (11400 LPM)
- 500 psi (34.5 BAR) maximum pressure rating
- 5" male outlet
- Durable, lightweight aluminum construction
- Teflon impregnated, hard coated aluminum finish

TRAVEL RANGE:

- Vertical -45° to +90° (135°)
- Horizontal L175° to R175° (350°)

INLETS:

- 4" 150# ANSI flange
- DN100-PN16

OUTLET:

5.0" male outlet





Recommended Controllers Refer to pages 7-8 for the complete line of EXM2 input controllers.



PANEL MOUNT CONTROLLER 7010X2



WIRELESS HANDHELD CONTROLLER/GATEWAY 7015X2



POSITION DISPLAY 7051X2



LIGHT KIT 7092X2

Recommended Nozzles & Accessories



SM-2000E (D) Master Stream Nozzle

- Automatic design to maximize reach and stream velocity based on available water supply
- Rated for: 500-2000 gpm @ 75 psi (1900-7550 LPM) @ 5.5 BAR)
- Stream pattern remotely controlled via robust electronic motor design
- Hard coated aluminum finish
- 3.5" female inlet
- Requires adapter P/N 11375001 for use with SM-2000E
- Deutsch or SAE wiring connections available



181-5A Deluge Tip

- 2-3/4" Discharge Size
- Rated for:
 2000 gpm @ 80 psi
 (7550 LPM @ 5.5 BAR)
- Rated for: 3000 gpm @ 120 psi (11400 LPM @ 5.5 BAR)
- Hard coated aluminum finish
- 5" female inlet



284-5A Stream Shaper

- Compact design
- Internal vanes help reduce turbulence improving stream reach and quality
- Hard coated aluminum finish
- 5" female inlet x 5" male outlet



The Magnum™ monitor combines the features and durability of the EXM2™ with groundbreaking dual 6" waterways to deliver extreme flow. With its large 6" inlet and unique waterway, the 7600X2 EXM2 is capable of providing 5000 gpm (20000 LPM) flow where you need it most. Designing the 7600X2 to be a part of the EXM2 family ensures the same level of quality and durability the industry has come to know. In addition, it has the same programmable EXM2 features such as 3D travel limits, keep-out zones, travel speeds, stow position, and oscillation.

MODEL: 7600X2

- 200 psi (14 BAR) maximum pressure
- Durable, lightweight aluminum construction
- Teflon impregnated, hard coated aluminum finish

TRAVEL RANGE:

- Vertical -60° to +90° (150°)
- Horizontal L175° to R175° (350°)
- 6" 150# ANSI flange inlet

INLETS:

6.0" 150# flange

OUTLET:

6.0" male outlet





Recommended Controllers Refer to pages 7-8 for the complete line of EXM2 input controllers.



PANEL MOUNT CONTROLLER 7010X2



WIRELESS HANDHELD CONTROLLER/GATEWAY 7015X2



POSITION DISPLAY 7051X2

Recommended Nozzles & Accessories

CM-3000E (D) Master Stream Nozzle

- Fixed flow combination Master Stream nozzle
- Rated for: 3000 gpm @ 80 psi (11400 LPM@ 5.5 BAR)
- Hard coated aluminum finish
- 6" female inlet
- Deutsch or SAE wiring connections available



CM-3000EX (D) **Master Stream Nozzle**

- Fixed flow combination Master Stream nozzle for extended reach
- Rated for: 3000 gpm @ 130 psi (11400 LPM @ 9 BAR)
- Hard coated aluminum finish
- 6" female inlet
- Deutsch or SAE wiring connections available

CM-5000E(D) **Master Stream Nozzle**

- Fixed flow combination Master Stream nozzle
- Rated for: 5000 gpm @ 100 psi (20000 LPM @ 7 BAR)
- Hard coated aluminum finish
- 6" female inlet
- Deutsch or SAE wiring connections available

BRUSHHAWK ELECTRIC MONITOR

MODEL: 8495

With a small swing radius and low stow height, the BrushHawk™ is the most compact monitor in its class. It's perfect for limited bumper space on brush and wildland trucks while also improving field of vision. Utilizing CANbus control, the BrushHawk comes with a proportional joystick controller that provides monitor controls for up/down/left/right and nozzle fog/stream controls. The joystick also includes on/off and trigger control for the optional valve kit. No intermediate junction box is required between the joystick and monitor, streamlining installation and space requirements.





- Rated for 500 gpm (1900 LPM)
- 200 psi (14 BAR) maximum pressure rating
- 1.5" male outlet
- Durable, lightweight aluminum construction
- Red urethane finish

TRAVEL RANGE: (Three Field Selectable Options)

- 350° Horizontal L175° to R175° and 120° Vertical -30° to +90°
- 180° Horizontal L90° to R90° and 120° Vertical -30° to +90°
- 180° Horizontal L90° to R90° and 90° Vertical -45° to +45°

INLETS:

- 1.5" NPT female
- 2.0" NPT female

OUTLET:

1.5" male outlet



Mechanical Features

- Teflon impregnated, hard anodized aluminum alloy waterway
- Double ball races with stainless steel bearings
- Fully enclosed stainless steel worm gears
- Manual travel overrides
- Sealed to NEMA 4

Control Features

- 12 or 24 VDC Input Voltage auto compatible
- Simple plug and play with full CANbus communication
- Fully proportional joystick includes all monitor controls including trigger for water valve control
- Electronics are located and sealed within monitor body – no separate module required
- Adjustable vertical and horizontal electronic stops



Recommended Controllers



Joystick

- Proportional Control
- Trigger for valve OPEN/CLOSE
- P/N 81899000



Valve Kit

- 1-1/2" or 2" ball valve with heavyduty electronic actuator
- 1-1/2": P/N 70212001 | 2": 70213001



Quick Disconnect

- Ideal for applications where monitor may impede apparatus maintenance
- P/N 81342001

Recommended Nozzles



5000-04E (D)



5000-14E (D)



5000-24E (D)



6000-200E (D)

SCORPION® ELECTRIC

MODEL: 8294-04

The Scorpion® Electric monitor allows for more effective use of personnel while reducing the potential risk of injury. It is very efficient at high flows due to a 4" fully vaned waterway. This monitor has extremely reliable built-in safety features such as: motors and control system components sealed to NEMA 4 rating, 10 vertical and 39 horizontal adjustable stop positions, and electronic controls with manual override. It also features a one-button automatic stow, with a choice of stow position (up or down) and output signal type (pulse or continuous). The Scorpion Electric is easy to install and also comes with NEMA 4 rated connectors and controller.

KEY FEATURES:

- Rated for 2000 gpm (7550 LPM)
- 200 psi (14 BAR) maximum pressure rating
- Durable lightweight aluminum construction
- Red urethane enamel finish

TRAVEL RANGE:

- Vertical -45° to +90°
- Horizontal L175° to R175° (350°)

INLET:

4" 150# ANSI flange inlet

OUTLET:

3.5" male outlet





Recommended Controllers



JOYSTICK CONTROL BOX P/N 81364001



PANEL MOUNT CONTROL P/N 81421001



TOGGLE CONTROL BOX P/N 81340001

Recommended Nozzles & Accessories



SM-2000E (D)



ST-195 STACKED TIPS



284-A STREAM SHAPER



252-8 FOAM TUBE



STINGER 2.0 MANUAL MONITORS

STINGER® 2.0 DUAL PURPOSE MONITOR: Stinger 2.0 is a dual-purpose, break-apart monitor for use as a deck gun or portable monitor. Numerous truck adapter and portable base options are available to suit every need. In portable mode, five forged aluminum legs with self-adjusting, carbide-tipped ground spikes increase stability. The lightweight Stinger 2.0 is the most flow-efficient in its class with a friction loss reducing 3-3/8" vaned waterway. Other features include a by-passable safety stop at 35° above horizontal, a patented monitor to base latching mechanism that provides visual indication of status, rotation lock mechanism which provides positive left/right lock with visual indication, a fully enclosed stainless steel worm gear, a liquid-filled pressure gauge, safety strap attached

with storage pouch, and a carrying handle.

KEY FEATURES:

- Rated for 1250 gpm (4750 LPM) flow rate / 1000 gpm (3800 LPM) with (2-2.5" portable base)
- Up-down travel range

PORTABLE MODE:

- Vertical +35° to +75° (40°)
- Horizontal L45° to R45° (90°)

DECK MODE:

- Vertical -15° to +75° (95°)
- Horizontal 360° Continuous
- Lightweight aluminum construction
- Red urethane enamel finish
- 2.5" male outlet

PORTABLE MODE MODELS

8297-25 – Upper Unit and Portable Ground Base

2 x 2.5" Swivel Inlet 1000 gpm (3800 LPM) Flow Rating

8297-35 – Upper Unit and Portable Ground Base

1 x 3.5" Swivel Inlet 1250 gpm (4750 LPM) Flow Rating

8297-40 – Upper Unit and Portable Ground Base

1 x 4.0" Swivel Inlet 1250 gpm (4750 LPM) Flow Rating

8297-41 — **Upper Unit and Portable Ground Base**• 1 x 4.0" Storz Inlet 1250 gpm (4750 LPM) Flow Rating

8297-45 – Upper Unit and Portable Ground Base

1 x 4.5" Swivel Inlet 1250 gpm (4750 LPM) Flow Rating

8297-51 – Upper Unit and Portable Ground Base

■ 1 x 5.0" Storz Inlet 1250 gpm (4750 LPM) Flow Rating

 ${\bf Model~ST\text{-}194A~Quad~Stacked~Tips~and~282A~Shaper~included~with~each~model}$

DECK MODE MODELS

8297-98P – Upper Unit and Top Mount Adapter

3" Female NPT Top Mount Adapter

1250 gpm (4750 LPM) Flow Rating

8297-98F – Upper Unit and Top Mount Adapter

3" Flange Top Mount Adapter

1250 gpm (4750 LPM) Flow Rating

8297-99 — Upper Unit and Top Mount Adapter

w/ 8299 2 x 2.5" Top Mount Adapter

1000 gpm (3800 LPM) Flow Rating

Model ST-194A Quad Stacked Tips and 282A Shaper included with each mode



STINGER 2.0 BASES

Portable Mode Stand Alone Portable Bases

2 x 2.5" Swivel Inlet 1000 gpm (3800 LPM) Flow Rating

1 x 3.5" Swivel Inlet
 1 x 4.0" Swivel Inlet
 1250 gpm (4750 LPM) Flow Rating
 1250 gpm (4750 LPM) Flow Rating

■ 1 x 4.0" Storz Inlet 1250 gpm (4750 LPM) Flow Rating

1 x 4.5" Swivel Inlet
 1250 gpm (4750 LPM) Flow Rating
 1 x 5.0" Storz Inlet
 1250 gpm (4750 LPM) Flow Rating



29



STINGER 2.0 NOZZLES & ACCESSORIES

ST-194 Quad Stacked Tip

- Discharges sizes of 1-3/8" / 1-1/2" / 1-3/4" / 2"
- Rated for 502 gpm / 597 gpm / 813 gpm / 1062 gpm @ 80 psi (1900 LPM / 2260 LPM / 3080 LPM / 4020 LPM @ 5.5 BAR)
- Hard coated aluminum finish
- 2.5" female rigid inlet

ST-191A Triple Stacked Tip

- Discharges sizes of 1-3/8" / 1-1/2" / 1-3/4" / 2"
- Rated for 597 gpm / 813 gpm / 1062 gpm @ 80 psi (2260 LPM / 3080 LPM / 4020 LPM @ 5.5 BAR)
- Hard coated aluminum finish
- 2.5" female swivel inlet

282-A Stream Shaper

- Compact design
- Internal vanes help reduce turbulence improving stream reach and quality
- Hard coated aluminum finish
- 2.5" female inlet x 2.5" male outlet

SM-1250 Master Stream Nozzle

- Automatic design to maximize reach and stream velocity based on available water supply
- Flow range of 350-1250 gpm @ 75 psi (1330-4750 LPM @ 5 BAR)
- Hard coated aluminum finish
- 2.5" female inlet





8298P 2.0 3" Female NPT Top Mount Adapter



8298F 2.0 3"150# ANSI flange Top Mount Adapter



8299 Deck Mount Adapter 2 x 2.5" Swivel Inlet Top Mount Adapter

8297 MB Portable Base Mounting Bracket

 Truck storage mounting bracket for Stinger® 2.0 portable base or complete monitor

DECK MODE STAND ALONE TOP MOUNT ADAPTERS



PN 81460001 Anchor Kit

Includes stake, mallet and carrying bag for securing portable base



PN 81315001 Companion Flange Kit

• 3" 150# ANSI steel flange with bolts and gasket



PN 814978001 Protective Cover for Base

 A shaped polymer covering for deck-mounted or portable-mounted bases, designed to protect the swivel bearing and/or ring gear. Attached tether for securing the cover



8298-EX The Pipe[™]

Increases the height of deck mounted Stinger 2.0 by 18" (457 mm)



Truck storage mounting bracket for 8298-EX The Pipe Manual Extender

PN 81258001 Caution Light

• For use with The Pipe-visual confirmation that The Pipe is attached



VULCAN MANUAL MONITORS

MODELS:

8500-02 (Tiller Bar Control)

8500-03 (Dual Handwheel Control)

8500-03X (Dual Handwheel Control – Fixed Base – Ideal for **Aerial Platform Applications)**

The Vulcan™ monitor delivers low friction loss due to 3-3/8" patented elliptical waterway with vaned interior. The small footprint, less than 15" wide and requiring just 16" of clearance, makes it ideal for tight spaces. Durable, lightweight aluminum construction is compatible with aerial platform applications, deck guns, or any other use where a lightweight, highly flow-efficient monitor is needed.

Several control options are available, allowing customization for your needs.



- Rated for 1250 gpm (4750 LPM)
- 200 psi (14 BAR) maximum pressure rating
- 2.5" male outlet
- Pressure gauge
- Durable, lightweight aluminum construction
- Red urethane finish

TRAVEL RANGE:

- Vertical -45° to +90° (135°)
- Horizontal Continuous 360°

INLETS:

- 3" NPT female
- 3" 150# ANSI flange
- 4" 150# ANSI flange
- DN80-PN16
- DN100-PN16

OUTLET:

2.5" male outlet



Recommended Nozzles & Accessories



SM-1250



ST-194 STACKED TIPS



282-A STREAM SHAPER



252-8 FOAM TUBE

SIDEWINDER MANUAL MONITORS



SCORPION® MANUAL MONITORS

MODELS:

8294-131 (Tiller Bar Control)

8294-02 (Dual Handwheel Control)

With its durable, lightweight aluminum construction, the Scorpion[®] is the perfect monitor for aerial applications. Scorpion is efficient at high flows due to a 4" fully vaned waterway. Elkhart Brass offers a choice of manual controls. The dual handwheel style delivers a full 360° horizontal rotation, and 10 vertical and 39 horizontal adjustable stop positions. The tiller style ("Big Stick®"), allows vertical and horizontal travel to be conveniently controlled with one handle. Scorpion requires little maintenance on the fully enclosed gear case, steel worm gears, and stainless steel balls in all swivel joints with grease fittings.

KEY FEATURES:

- Rated for 2000 gpm (7550 LPM)
- 200 psi (14 BAR) maximum pressure rating
- Pressure gauge
- Durable, lightweight aluminum construction
- Red urethane finish

TRAVEL RANGE:

- Vertical -45° to +90° (135°) 8294-02
- Vertical -50° to +75° (125°) 8294-131
- Horizontal 360°

INLETS:

4" 150# ANSI flange inlet

OUTLET:

3.5" male outlet



Recommended Nozzles & Accessories



MID-RANGE SELECT-O-MATIC® XD TIP



MID-RANGE



188-XD SMOOTH BORE TIP



281-A-MINI STREAM SHAPER

Recommended Nozzles & Accessories



SM-2000



ST-195 STACKED TIPS



283-A STREAM SHAPER



253-9 FOAM TUBE



MASTER STREAM

5000 SERIES

Created for specific applications where water flow may be limited, such as wildland firefighting, the 5000 Series nozzle is a high-performance, fixed flow, combination nozzle. With a 1.5" inlet, the 5000 Series is compatible with lower flow monitors such as the BrushHawk™.

- Flow rates: 15-475 gpm (60-1800 LPM) based on stem selection
- 100 psi (7 BAR) operating pressure
- Straight stream, narrow fog (30°) or wide fog (90°)
- Spinning teeth
- Manual override
- Durable, lightweight aluminum construction

MASTER STREAM

- Flow rates: 15-700 gpm (60-2650 LPM)
- 100 psi (7 BAR) operating pressure
- Straight stream, narrow fog (30°) or wide fog (90°)

MASTER STREAM

- Manual override
- Durable, lightweight aluminum construction

The 6000 Series is a line of selectable flow, electrically actuated Master Stream Nozzles featuring an ultra-wide flow range with a locking flow-selector ring. Useful in many applications, the 6000 Series was specifically designed for optimal performance when paired with the Sidewinder® EXM2 monitor.

Model 5000-04E (D)

Available flow rates: 15 gpm, 30 gpm, OR 45 gpm @ 100 psi (60 LPM, 115 LPM, or 170 LPM @ 7 BAR)

- 1.5" female inlet
- Deutsch or SAE wiring connections available



Model 5000-14E (D)

Available flow rates:

60 gpm, 75 gpm, 95 gpm, 125 gpm, OR 150 gpm @ 100 psi (230 LPM, 300 LPM, 360 LPM, 475 LPM, or 570 LPM @ 7 BAR)

- 1.5" female inlet
- Deutsch or SAE wiring connections available



Model 5000-24E (D)

Available flow rates:

175 gpm, 200 gpm, 250 gpm, 350 gpm, 400 gpm OR 475 gpm @ 100 psi (660 LPM, 750 LPM, 950 LPM, 1330 LPM, 1515 LPM, or 1800 LPM @ 7 BAR)

- 1.5" female inlet
- Deutsch or SAE wiring connections available



SM-10FE (D) Master Stream Nozzle

- Automatic design to maximize reach and stream velocity based on available water supply
- Flow range of 20-120 gpm @ 100 psi (80-460 LPM @ 7 BAR)
- Stream pattern remotely controlled via robust electronic motor design
- Hard coated aluminum finish
- 1.5" female inlet
- Deutsch or SAE wiring connections available



Model 6000-200E (D)

Selectable flow rates:

15-30-45-95-125-150-200 gpm @ 100 psi (60-115-170-360-475-570-750 LPM @ 7 BAR)

- Specify 1.5" or 2.5" female inlet
- Deutsch or SAE wiring connections available

Model 6000-700E (D)

Selectable flow rates:

250-350-500-700 gpm @ 100 psi (950-1330-1900-2650 LPM @ 7 BAR)

- 2.5" female inlet
- Deutsch or SAE wiring connections available





Built to perform, the X-Stream® Series automatic nozzles are designed to self-adjust based on variable or reduced pressure and flow to maintain an effective stream with maximum reach. Manual models feature large handles for easy stream pattern adjustment. 12VDC electric versions include sealed connectors and motors along with a manual override.

KEY FEATURES:

- Flow rates: 350 2000 gpm (1330-7550 LPM)
- Calibrated to operate at lower inlet pressures of 75 or 80 psi (5 or 5.5 BAR)
- Straight stream, narrow fog (30°) or wide fog (90°)
- Precision cut metal teeth for exceptional fog pattern
- Durable, lightweight aluminum construction

Model SM-1000

- Flow range of 350-1000 gpm @ 75 psi (1330-3800 LPM @ 5 BAR)
- Large handles for manual stream pattern adjustment
- 2.5" Inlet

Model SM-1250

- Flow range of 350-1250 gpm @ 75 psi (1330-4750 LPM @ 5 BAR)
- Large handles for manual stream pattern adjustment
- 2.5" Inlet

Model SM-2000

- Flow range of 500-2000 gpm @ 80 psi (1900-7550 LPM @ 5.5 BAR)
- Large handles for manual stream pattern adjustment
- 3.5" Inlet



Model SM-1000E (D)

- Flow range of 350-1000 gpm @ 75 psi (1330-3800 LPM @ 5 BAR)
- Stream pattern remotely controlled via robust electronic motor design
- 2.5" Inlet
- Deutsch or SAE wiring connections available

Model SM-1250E (D)

- Flow range of 350-1250 gpm @ 75 psi (1330-4750 LPM @ 5 BAR)
- Stream pattern remotely controlled via robust electronic motor design
- 2.5" Inlet
- Deutsch or SAE wiring connections available

Model SM-1500E (D)

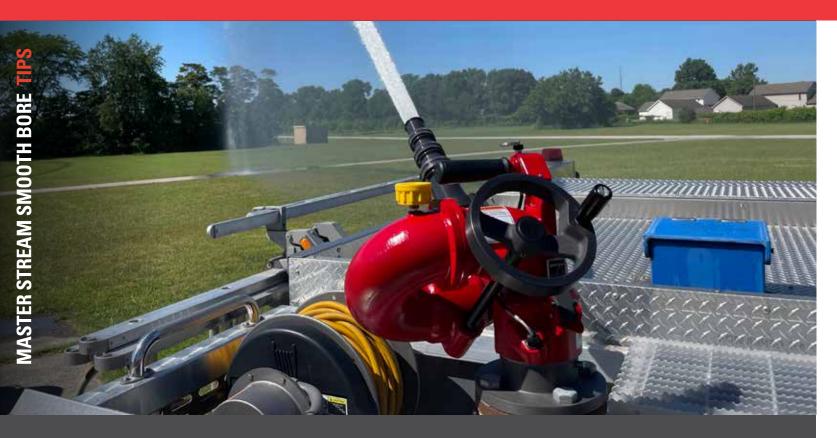
- Flow range of 350-1500 gpm @ 75 psi (1330-5700 LPM @ 5 BAR)
- Stream pattern remotely controlled via robust electronic motor design
- 3.5" Inlet
- Deutsch or SAE wiring connections available



Model SM-2000E (D)

- Flow range of 500-2000 gpm @ 80 psi (1900-7550 LPM @ 5.5 BAR)
- Stream pattern remotely controlled via robust electronic motor design
- 3.5" Inlet
- Deutsch or SAE wiring connections available





MASTER STREAM SMOOTH BORE TIPS

Designed for maximum reach and penetration when combined with Elkhart Brass monitors, they are available in a variety of discharge sizes to suit any application.

ST-194 Quad Stacked Tip

Discharges sizes of 1-3/8" / 1-1/2" / 1-3/4" / 2"

Rated for 502 gpm / 597 gpm / 813 gpm / 1062 gpm @ 80 psi (1900 LPM / 2260 LPM / 3080 LPM / 4020 LPM @ 5.5 BAR)

- Hard coated aluminum finish
- 2.5" female inlet



ST-191A Triple Stacked Tip

Discharges sizes of 1-1/2" / 1-3/4" / 2"

Rated for 597 gpm / 813 gpm / 1062 gpm @ 80 psi (2260 LPM / 3080 LPM / 4020 LPM @ 5.5 BAR)

- Hard coated aluminum finish
- 2.5" female inlet



ST-195 Stacked Tip

Discharges sizes of 2" / 2-1/4" / 2-1/2"

Rated for 1062 gpm / 1345 gpm / 1660 gpm @ 80 psi (4020 LPM / 5090 LPM / 6283 LPM @ 5.5 BAR)

- Hard coated aluminum finish
- 3.5" female inlet



181-A Deluge Tip

Available discharge sizes:

- 1-3/8" Discharge Size
 Rated for 500 gpm @ 80 psi (1900 LPM @ 5.5 BAR)
- 1-1/2" Discharge Size
 Rated for 597 gpm @ 80 psi (2260 LPM @ 5.5 BAR)
- 1-3/4" Discharge Size
 Rated for 813 gpm @ 80 psi (3080 LPM @ 5.5 BAR)
- 2-1/4" Discharge Size
 Rated for 1345 gpm @ 80 psi (5090 LPM @ 5.5 BAR)
- Hard coated aluminum finish
- 2.5" female inlet



ST-197A Triple Stacked Tip

Discharges sizes of 1" / 1-1/4" / 1-1/2"

Rated for 265 gpm / 413 gpm / 596 gpm @ 80 psi (1000 LPM / 1560 LPM / 2250 LPM @ 5.5 BAR)

- Hard coated aluminum finish
- 2.5" female inlet



181-3A Deluge Tip

3" Discharge Size

Rated for 2391 gpm @ 80 psi (9050 LPM @ 5.5 BAR)

- Built-in stream shaper
- Hard coated aluminum finish
- 3.5" female inlet



181-CAFS – CAFS Smooth Bore Tip

- 1-3/8" Discharge
- Long barrel design for optimum foam finish
- Hard coated aluminum finish
- 1.5" female inlet



STREAM SHAPERS

Used to remove turbulence from water flow and increase stream performance, Elkhart Brass has Stream Shapers available in a variety of sizes and materials to suit all applications.

281-A Stream Shaper

- Compact design
- Internal vanes help reduce turbulence improving stream reach and quality
- Durable, lightweight aluminum construction
- 1.5" female inlet x 1.5" male outlet



281-A-MINI Stream Shaper

- Lower Profile design
- Internal vanes help reduce turbulence improving stream reach and quality
- Durable, lightweight aluminum construction
- 1.5" female inlet x 1.5" male outlet



282-A Stream Shaper

- Compact design
- Internal vanes help reduce turbulence improving stream reach and quality
- Durable, lightweight aluminum construction
- 2.5" female inlet x 2.5" male outlet



282-A-MINI Stream Shaper

- Lower Profile design
- Internal vanes help reduce turbulence improving stream reach and quality
- Durable, lightweight aluminum construction
- 2.5" female inlet x 2.5" male outlet



283-A Stream Shaper

- Compact design
- Internal vanes help reduce turbulence improving stream reach and quality
- Durable, lightweight aluminum construction
- 3.5" female inlet x 2.5" male outlet



284-A Stream Shaper

- Compact design
- Internal vanes help reduce turbulence improving stream reach and quality
- Durable, lightweight aluminum construction
- 3.5" female inlet x 3.5" male outlet



FOAM EXPANSION TUBES

Lightweight composite foam tubes are corrosion resistant and easy to handle with bases that snap securely onto the nozzle in seconds. The foam tubes are specifically designed to require no alteration of the nozzle itself for use. The base of the tube includes large air intakes. Expansion rates are easily varied with nozzle pattern.

Model 251-6

Compatible with the following Master Stream Nozzles:

6000 Series

Length: 14.75", Tube Base: Composite



Model 252-8

Compatible with the following Master Stream Nozzles:

- SM-1000
- SM-1000E
- SM-1250
- SM-1250E

Length: 16.69", Tube Base: Metal



Model 253-9

Compatible with the following Master Stream Nozzles:

- SM-1500E
- SM-2000
- SM-2000E

Length: 16.14", Tube Base: Metal



MASTER STREAM

HYDRO-FOAM® **SELF-EDUCTING**

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

KEY FEATURES:

- Built-in metering device accurately proportions foam at the selected rate
- Suitable for Class A and Class B foams including AFFF and fluoroprotein foam concentrates
- Pattern easily changed under flowing conditions from straight stream to 90° fog

HF-350A / HF-500A Hydro-Foam Nozzle

- Rated for 350 gpm (1330 LPM) or 500 gpm @ 100 psi (1900 LPM @ 7 BAR)
- Cast aluminum self-educting foam nozzle design supplied with pick up tube
- Pick up rates: ½%, 1%, 3%, 6% (HF-350A) ½%, 1%, 3%, (HF-500A)
- 2.5" female swivel inlet

XTREME HYDRO-FOAM NOZZLES

KEY FEATURES:

- Automatic flow nozzle design maximizes reach based on available water supply across a range of flows
- Lightweight aluminum construction

- from straight stream to 90° fog
- Hard coated aluminum finish

SM-1000-HF

- Rated for 350-1000 gpm @ 100 psi (1330-3800 LPM @ 7 BAR)
- Pick up rates: 1% and 3%
- Clear vinyl 9' (2.7 m) pick up hose included
- 2.5" female swivel inlet

SM-2000-HF

- Rated for 750-2000 gpm @ 100 psi (2900-7550 LPM @ 7 BAR)
- Pick up rate: 1%
- Clear vinyl 9' (2.7 m) pick up hose included
- 3.5" female swivel inlet

SM-2000E-HF

- Rated for 750-2000 gpm @ 100 psi (2900-7550 LPM @ 7 BAR)
- Pick up rate: 1%
- Stream pattern remotely controlled via robust electronic motor design
- Clear vinyl 9' (2.7 m) pick up hose included
- 3.5" female swivel inlet

Pattern easily changed under flowing conditions

BUILT-IN FOAM EDUCTOR SYSTEMS

Elkhart Brass offers built-in foam eductors for all discharges (pipe sizes of 1.5" and 2"), and the eductors are compatible with most foam concentrates. The built-in eductors come furnished with valves, fittings and accessories for installing permanently behind the panel in pump compartment.

KEY FEATURES:

- One (1) 240 bypass eductor
- One (1) 890-01-01-D 1.00" inline valve
- Two (2) 775-15 tee handles
- Two (2) 775-11 rod guides

- One (1)" thru the panel" metering valve with 5 settings (0%, 1/2%, 1%, 3%, and 6%)
- One (1) ball check valve
- One (1) brushed stainless steel instruction plate (with hardware)

240-60P

- 60 gpm (230 LPM) flow rate
- 2" female NPT inlet/outlet standard
- Victaulic inlet/outlet optional

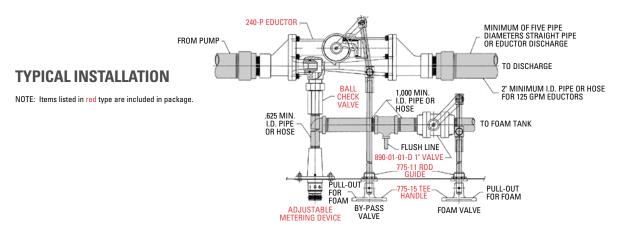
240-95P

- 95 gpm (360 LPM) flow rate
- 2" female NPT inlet/outlet standard
- Victaulic inlet/outlet optional

240-125P

- 125 gpm (475 LPM) flow rate
- 2" female NPT inlet/outlet standard
- Victaulic inlet/outlet optional







ELECTRIC EXTENDER

MODEL: 8598

The Electric Extender deploys in 10 seconds and extends a full 18" (457 mm) above the pump house. It is designed to flow in both the raised and lowered positions.

KEY FEATURES:

- Push-button control pad intended for mounting to pump panel
- In-cab warning light to alert the operator of Extender's position
- Pressure switch to prevent retraction when internal pressure is greater than 10 psi (0.7 BAR)
- Compliant with NFPA #1901
- Multiple mounting options to accommodate apparatus design
- Mounting and wiring materials included

INLET/OUTLET OPTIONS:

- 3" VIC / 3" MNPT
- 3" MNPT / 3" MNPT
- 3" VIC / 3" 150# flange
- 3" MNPT / 3" 150# flange
- 3" 150# flange / 3" 150# flange

MANUAL EXTENDER

MODEL: 8599

Available in both 12" (305 mm) and 18" (457 mm) options, the Manual Extender provides full 360° operation in either full-up or full-down position. The integrated lock prevents unintended collapse of the Extender, protecting the operator from harm.

KEY FEATURES:

- 3" waterway capable of 1250 gpm (4750 LPM)
- Easy to operate latch for simple and safe deployment
- Integrated proximity sensor for connection to in-cab warning light (light not included)
- Multiple mounting bracket options (included) to accommodate apparatus design

INLET/OUTLET OPTIONS:

- 3" VIC / 3" MNPT
- 3" MNPT / 3" MNPT
- 150# flange kit available sold separately



APPARATUS VALVES

Unibody™ Valves

The Unibody™ Valve family, with ball valve offerings from 1.5" to 4.0" and butterfly valves offered in 3.0" to 8.0", provides a solution to all of your apparatus valve needs. Ball valves utilize solid brass construction and incorporate a universal design to simplify both configuration and installation. Butterfly valves, either gear or electrically actuated, are offered in several material options for your specific application. All Unibody Valves, when paired with an electric actuator, are compatible with the APEX™ Valve Controller.

BALL VALVES KEY FEATURES:

 Multiple manual actuator options allow for flexibility when designing the pump module

ZEXHAMY

- Valves include self-adjusting seats for superior bi-directional sealing
- Adapters, endcaps and flanges in brass or stainless steel options
- Electric actuators include an extreme-duty motor and gearbox for ultimate reliability
- Valves meet or exceed NFPA 1901 standards

BUTTERFLY VALVES KEY FEATURES:

- Gear-driven or extreme-duty electric actuator options
- PTFE or EPDM seats for superior durability and sealing
- Installs easily between 150# ANSI flanges
- Valve body options in stainless steel, carbon steel, or cast iron
- Wafer options stainless steel or aluminum/bronze
- Valves meet or exceed NFPA 1901 standards

Unibody[™] Apparatus Valves (continued)



The Unibody[™] Valve is the only valve in the industry completely engineered and designed with simple, trouble-free configuration, installation, operation and service in mind. Simply choose your valve size and select your actuator. It's that simple.

Easy to Configure

- Single body construction
- Actuator not dependent on valve

Easy to Operate

- No gaskets or O-Rings
- Stainless steel ball
- Dual, self-adjusting seats

Easy to Service

- Swing-out body design
- Bi-directional water flow
- Cross-compatibility for trouble-free switching

Easy to Order

- Simplified naming structure
- Only one valve per size no matter the actuator

Strong

- 10-year warranty
- Stainless steel ball
- 250 psi working pressure
- Static pressure tested to 600 psi (41 BAR) (EB15-EB35); 500 psi (34 BAR) (EB40)
- Vacuum tested to 22-inches of mercury

Reliable

- Corrosion-resistant brass alloy body
- Meets or exceeds NFPA 1901 standards
- Super-duty, oversized electric motor (100,000+ lifecycle)

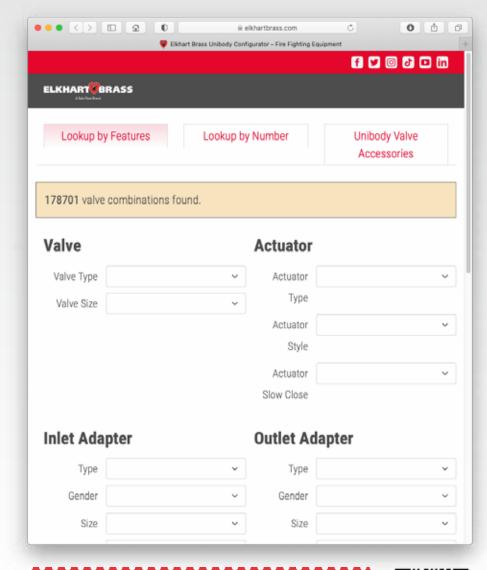
Built

- Body Cast brass 81-3-7-9 alloy 844, ASTM B584
- Ball 316 Stainless steel
- Seats DuPont Hytrel G-6356, Nominal Durometer 63
- Pivot Shaft Brass bar alloy CDA 360, ASTM B16

THE CONFIGURATOR

GO ONLINE AND HAVE IT YOUR WAY

We have a new tool to configure your Unibody Valve to your exact specifications and needs. Visit unibodyconfigurator.com to configure your assembly, create spec sheets and download CAD drawings. You can also find Unibody Valve components like end caps and handles. If you need customization we have the answers here!

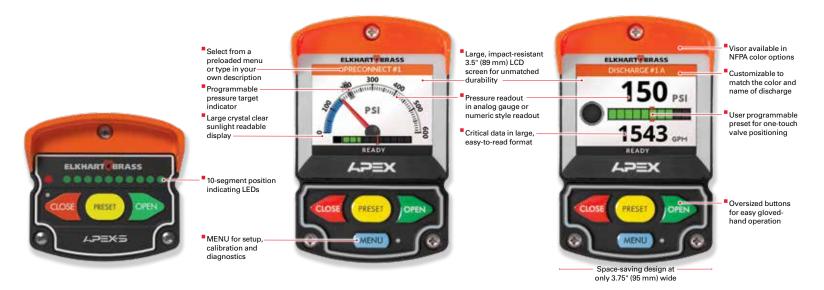


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APPARATUS VALVES











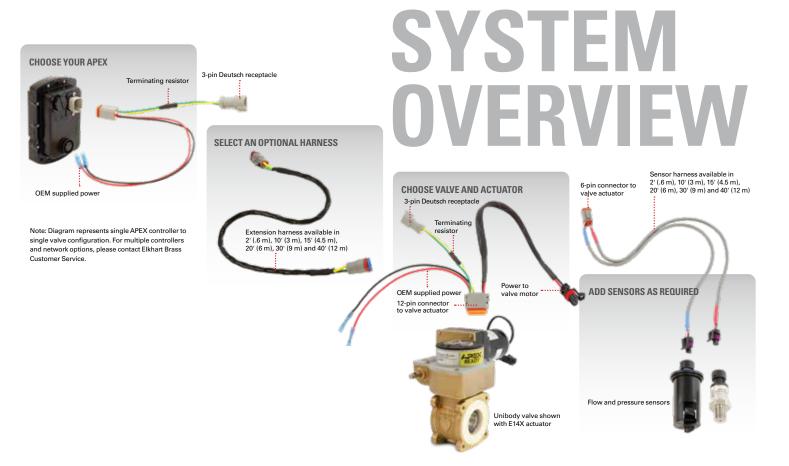




△>=×²⁰⁰ Valve Control with Pressure



△>=×300 Valve Control with Pressure and Flow



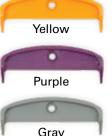














SINGLE BODY

APPARATUS VALVES

1.0" and 1.5" Single Body apparatus valves are equipped with an integral actuator of your choice – direct or remote. They're designed especially for reliability, ease of installation, and ease of use.

The Single Body ball valve is designed to the industry standard dimensions. It features the option to select one of eight handle positions with removal of a single bolt. It's that simple. Coupling the Single Body Valves with the Unibody apparatus line, Elkhart Brass is your total apparatus valve solution.

KEY FEATURES:

- Available in 1.0" (SB10) & 1.5" (SB15) body sizes with an integral direct or remote actuator
- The bodies are constructed of corrosion-resistant brass, and the ball is constructed from durable stainless steel
- Dual, self-adjusting seats provide bidirectional sealing
- Adapters (end caps) are constructed of brass and do not require O-rings that could cut or tear during servicing
- Swing-out construction allows for easy access to internal waterway
- Handle position can easily be changed to one of eight positions in 45° increments
- Meets or exceeds NFPA 1901 standards
- Covered by the Elkhart Brass 10-year Unibody Valve Limited Warranty

SB10/R1

- 1.0" Waterway
- Remote Handle

SB15/R1

- 1.5" Waterway
- Remote Handle

SB10/TS

- 1.0" Waterway
- Direct Handle

SB15/TS1

- 1.5" Waterway
- Direct Handle



UNIBODY HANDWHEELS

GWP-4

- 4" Handwheel diameter
- Position indication
- Stainless steel construction and finish

GWP-6

- 6" Handwheel diameter
- Position indication
- Stainless steel construction and finish



GWR-5

- 5" Handwheel diameter
- Panel mount
- Brass construction with chrome finish
- Furnished with panel bushing and two universal joints with protective rubber boots

GWR-6.5

- 6.5" Handwheel diameter
- Panel mount
- Brass construction with chrome finish
- Furnished with panel bushing and two universal joints with protective rubber boots

GWD-5

- 5" Handwheel diameter
- Direct mount
- Brass construction with chrome finish



GWD-6.5

- 5" Handwheel diameter
- Direct Mount
- Brass construction with chrome finish



REMOTE VALVE CONTROLS

TEE HANDLE REMOTE CONTROL UNITS

Push-pull control for the operation of in-line, quarter-turn ball valves or built-in eductors. Handle configuration allows identification/ location label to be inserted.

RC-1

- Locking handle
- 1.9" Installation diameter (4.8 cm)
- Furnished with two ball joint connectors
- 11" Travel (27.9 cm)
- Chrome-plated case, brass handle with anodized aluminum extrusion rod



RC-7

- Non-locking handle
- 1" Installation diameter (2.5 cm)
- Specify 11.3", 9.8", or 7.3"Travel
- Chrome-plated case, brass handle with anodized aluminum extrusion rod

RC-10 – SLOW CLOSING VALVE CONTROL

- Remote actuation of any ball valve
- Linear output screw-type actuator compliant with NFPA 1901 (as it pertains to slow-closing valves)
- Actuator and push-rod constructed of extruded aluminum alloys
- Precision needle thrust bearing and hardened thrust washers
- 5" cast alloy handwheel with collet-type connection allows for easy compact thru-panel installation (either new or retrofit)
- Furnished with threaded ball swivel joint at end of drive rod
- Installation diameter: 1.03" (pump panel) (2.6 cm)
- Length: 16.4" (retracted) and 21.4" (extended) (41.6 cm or 54.3 cm)





OPTIONAL VALVE STATUS INDICATOR

- For use with RC-10 Slow closing valve control handle
- Requires minimal pump panel space
- Tri-color indicators: red (closed), yellow (gated) and green (open)
- Feature 100,000-hour, ultra-bright LEDs mounted within an optical filter to maximize visibility in bright sunlight
- NEMA 4 rated
- Chrome bezel included

RC ACCESSORIES

775-5 – HANDLE

- For remote control screw-type gate valve or gear-driven valve
- Bored for .375" rod (0.95 cm)
- Material: Cast brass with chrome-plated finish
- Diameter: 4" (10.1 cm)

775-11 – ROD GUIDE

- For centering and guiding remote control rod
- Nylon sleeve for 0.5" rod (1.2 cm)
- Material: Cast brass with chrome-plated finish
- Diameter: 1.5" (3.8 cm)

775-15 – TEE HANDLE

- For use with push-pull rods to remotely operate in-line, quarter-turn ball valves or built-in eductors
- Bored for 0.5" rod (1.2 cm)
- Can be threaded to .500" 13 or .500" 20 (specify)
- Handle configuration allows identification/location label to be inserted
- Material: Cast brass with chrome-plated finish
- Height: 1.1" (2.7 cm)









PISTON INTAKE



Model 9786

KEY FEATURES:

- Durable urethane seat
- Folding handwheel spinner
- 4.5" waterway
- 3 /4" bleeder valve
- Adjustable relief/dump valve (75 to 250 psi) (5 BAR to 17 BAR) (factory set at 125 psi) (8.5 BAR)
- Includes internally mounted anode that electrolytically decomposes while inhibiting the metal breakdown of the piston intake valve
- Cast aluminum construction
- Red urethane enamel finish

While many piston intake valves have the common issue of corrosion, resulting in minor leaks to complete failure (depending on service conditions and water supply), the Elkhart Brass 9786 piston intake valve offers a solution. The replaceable anode electrolytically decomposes, while inhibiting the metal breakdown of the piston intake valve.



AVAILABLE HOSE INLETS:

- Hose connection options
- 3.5" free swivel female
- 4.0" free swivel female
- 4.5" free swivel female
- 5.0" free swivel female
- 3.5" male
- 4.0" male
- 4.5" male
- 5.0" male
- 6.0" male
- 4.0" Storz
- 5.0" Storz

AVAILABLE TRUCK CONNECTIONS:

- 4.5" swivel female
- 5.0" swivel female
- 6.0" swivel female

SUCTION INTAKE

Elkhart Brass offers a special cast iron, butterfly valve with hard coated aluminum end caps for use as a suction intake in apparatus applications.

KEY FEATURES:

- Aluminum/bronze disc
- Reinforced EPDM seat (bi-directional)
- Two-piece stainless steel stem
- Rated to 200 psi (13 BAR)
- Finished in red urethane enamel with polished chrome handwheel and hard anodized end caps
- Gear operated version complies with NFPA 1901

Model 2850

- 5" Waterway size
- Gear operation style standard, Lever/Trigger optional
- Optional strainer available on some male adapters
- Optional air bleeder valve on male adapters

AVAILABLE ADAPTERS / END CAPS:

- 5" Rigid NPT female
- 6" Rigid NPT female
- 4.5" Rigid NHT female
- 5" Rigid NHT female
- 4" Storz
- 5" Storz
- 4" NHT female swivel inlet (long handle or rocker lug)
- 4.5" NHT female swivel inlet (long handle or rocker lug)
- 5" NHT female swivel inlet (long handle or rocker lug)
- 4" NHT male
- 4.5" NHT male
- 5" NHT male

Model 2860

- 6"Waterway size
- Gear operation style standard, Lever/Trigger optional
- Optional strainer available on some male adapters
- Optional air bleeder valve on male adapters

AVAILABLE ADAPTERS / END CAPS:

- 6" Rigid NPT female
- 6" Rigid NHT female
- 5" NHT female swivel inlet (long handle or rocker lug)
- 6" NHT female swivel inlet (long handle or rocker lug)
- 5" NHT male
- 6" NHT male



MISCELLANEOUS

PPARATUS

MODEL 40 RELIEF VALVES

- For use on the suction side of the pump or on a designated LDH discharge outlet
- Material: Choice of cast brass or hard coated aluminum with stainless steel mechanism
- Rubber seat to ensure positive vacuum seal
- Adjustable pressure of 75-250 psi (pre-set to 125 psi) 5 BAR to 17 BAR (pre-set to 8.5 BAR)

Model 40-10

- Cast brass construction with stainless steel spring mechanism
- 2.5" female NHT inlet

Outlet options:

2.5" male NPT

Model 40-20

 Cast brass construction with stainless steel spring mechanism

Inlet options:

- 2.5" American (A) flange
- 2.5" Hale (H) flange
- 2.5" Waterous (W) flange

Outlet options:

- 2.5" male NPT
- 2.5" Victaulic
- 2.5" male NHT

Model 40-22

 Cast brass construction with stainless steel spring mechanism

Inlet options:

2.5" Darley flange

Outlet options:

- 2.5" male NPT
- 2.5" Victaulic



Model 40-32

- Cast brass construction with stainless steel spring mechanism
- 2.5" male NHT inlet
- 2.5" male NPT outlet

Model 40-40

 Cast brass construction with stainless steel spring mechanism

Inlet options:

• 2.5" male NPT

Outlet options:

- 2.5" male NPT
- 2.5" Victaulic

Model 40-41

 Cast brass construction with stainless steel spring mechanism

Inlet options:

• 3" male NPT

Outlet options:

- 2.5" male NPT
- 2.5" Victaulic

Model 40A

- Hard coated aluminum construction with stainless steel spring mechanism
- 2.5" female NPT inlet
- 2.5" male NPT outlet with "2.56" x 2.63" rectangular outlet

PUSH/PULL DRAIN VALVE

Model 110

- Cast brass construction with stainless steel handle rod
- Direct Mount
- 0.75" female NPT inlet
- 0.75" female NPT outlet
- 2.25" handle length (closed)
- 4.375", 3.0", 1.5" optional handle lengths (closed)



MISCELLANEOUS APPARATUS VALVES

Model 115

- Cast brass construction with stainless steel handle rod
- Panel Mount
- Body pre-drilled for mounting
- 0.75" female NPT inlet
- Male shank outlet for 0.75" ID drain hose
- 2.25" handle length (closed)
- 4.375", 3.0", 1.5" optional handle lengths (closed)



QUARTER TURN DRAIN VALVE

Model 116

- Cast brass construction with stainless steel handle rod
- Panel Mount
- Body pre-drilled for mounting to pump panel
- 0.75" NPT female inlet
- 0.75" NPT female outlet
- Machined brass ball
- Optional inlet with .125" NPT tap for gauge



APPARATUS FITTINGS

105 Apparatus Elbow – 45°

Cast brass with chrome-plated finish

Options

- 2.5" female swivel inlet x 2.5" male outlet
- 2.5" female swivel inlet x 3" male outlet
- 3" female swivel inlet x 2.5" male outlet
- 3" female swivel inlet x 3" male outlet
- 3.5" female swivel inlet x 3.5" male outlet
- 90° Discharge & suction swivel elbows

348 – 1.5"

- Cast brass construction and finish
- Single ball bearing race
- 1.5" or 2" female NPT free swivel inlet
- 1.5"male NHT or NSPH outlet

348L - 1.5"

- Slightly longer discharge
- Cast brass construction and finish
- Single ball bearing race
- 1.5" or 2" female NPT free swivel inlet
- 1.5" male NHT or NSPH outlet

348M - 1.5"

- Includes cast bracket for stud mount to apparatus
- Cast brass construction and finish
- Single ball bearing race
- 2" female NPT free swivel inlet
- 1.5" male NHT outlet

348ML - 1.5"

- Includes cast bracket for stud mount to apparatus
- Slightly longer discharge
- Cast brass construction and finish
- Single ball bearing race
- 2" female NPT free swivel inlet
- 1.5" male NHT outlet











348 – 2.5"

- Cast brass construction and finish
- Double ball bearing race
- 2.5" female NPT free swivel inlet
- 2.5" male NHT outlet

348M - 2.5"

- Specify flange bracket or stud mount bracket for mounting to apparatus
- Cast brass construction and finish
- Double ball bearing race
- 2.5" female NPT free swivel inlet
- 2.5" male NHT outlet

348 – 4"

- Cast brass construction with rough brass or rough chrome finish
- Double ball bearing race
- 4" female NPT free swivel inlet
- 4" male NHT or NPT outlet

348 – 5"

- Cast brass construction with rough chrome finish
- Double ball bearing race
- 5" female NPT free swivel inlet
- 5" male NHT outlet with strainer

348 – 6"

- Cast brass construction with rough brass or rough chrome finish
- Double ball bearing race
- 6" female NPT free swivel inlet
- 6" male NHT outlet with strainer









Apparatus Fittings (continued)

Weight and Dimensions available at www.elkhartbrass.com

418 Suction Adapter

- Rugged, cast brass, internal lug adapter with removable strainer for suction intake of pump
- Chrome-plated finish

Options

- 3" female NPT inlet x 3" male NHT outlet
- 4" female NPT inlet x 4" male NHT outlet
- 4" female NPT inlet x 4.5" male NHT outlet
- 4" female NPT inlet x 5" male NHT outlet
- 4" female NPT inlet x 6" male NHT outlet
- 5" female NPT inlet x 4.5" male NHT outlet
- 5" female NPT inlet x 5" male NHT outlet
- 5" female NPT inlet x 6" male NHT outlet
- 6" female NPT inlet x 5" male NHT outlet
- 6" female NPT inlet x 6" male NHT outlet
- 418-L

418-L Discharge Adapter (Long)

- Rugged, cast brass, internal lug adapter for discharge outlet
- Chrome-plated finish
- 2.5" female NPT inlet x 2.5" male NHT outlet

418-S Discharge Adapter (Short)

- Rugged, cast brass, internal lug adapter for discharge outlet
- Chrome-plated finish
- 2.5" female NPT inlet x 2.5" male NHT outlet

418-SA Discharge Adapter (Short)

- Durable lightweight aluminum rocker lug adapter for discharge outlet
- Hard coated aluminum finish
- 2.5" female NPT inlet x 2.5" male NHT outlet

419 Suction Adapter

- Rugged, cast brass, internal lug adapter with removable strainer for suction intake of pump
- Chrome-plated finish

Options

- 2.5" female NPT inlet x 2.5" female swivel NHT outlet
- 3" female NPT inlet x 2.5" female swivel NHT outlet
- 3" female NPT inlet x 3" female swivel NHT outlet











Hydrant Wrench

- Adjustable to fit up to a 1.75" pentagon nut or 1.5" square nut on fire hydrants
- cast manganese bronze, with a knurled chrome-plated steel handle

WRENCHES & HOLDERS

T-464 Universal **Spanner Wrench**

- Used for tightening or loosening hose couplings up to 3.5" equipped with either rocker lugs or pin lugs
- Features gas shutoff slot, hammer head, pry end, and hanger loop
- Durable lightweight aluminum
- Cast aluminum finish

F-464A Folding Spanner Wrench

- Used for tightening or loosening hose couplings up to 3.5" equipped with either rocker lugs or pin lugs
- Folds in half for a perfect pocket fit
- Features pry end and clip ring
- Durable lightweight aluminum
- Cast aluminum finish

F-464B Folding Spanner Wrench

- Used for tightening or loosening hose couplings up to 3.5" equipped with either rocker lugs or pin lugs
- Folds in half for a perfect pocket fit
- Features pry end and clip ring
- Rugged brass construction
- Cast brass finish

S-454 Adjustable

- Can be used as a spanner wrench on 2.5" pin lug couplings or on rocker lug couplings from 2.5" up to 5.0"
- Wrench head is made of rugged,

S-454-S Adjustable **Hvdrant Wrench**

- Adjustable to fit up to a 1.75" pentagon nut or 1.5" square nut on fire hydrants
- Can be used as a spanner wrench on 4.0" or 5.0" Storz couplings or on rocker lug couplings from 2.5" up to 5.0"
- Wrench head is made of rugged, cast manganese bronze, with a knurled chrome-plated steel handle

469 Spanner Wrench Holder

- Durable lightweight aluminum construction
- Holds two T-464 universal spanner wrenches
- Quick, snap action release
- Available with our without wrenches



470 Hydrant and **Spanner Wrench Holder**

- Durable lightweight aluminum construction
- Holds one hydrant wrench (454 or S-454) and two T-464 universal spanner wrenches
- Quick, snap action release
- Available with our without wrenches



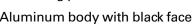


653 Tri-Loc™ Nozzle Holder

- For mounting nozzles and accessories on running board or in compartment
- Positive grip
- One-hand release
- Fits 2.5" hose thread (except NPSH)
- Material: Brass with chrome-plated finish

L653 Tri-Loc™ Nozzle Holder

- For mounting nozzles and accessories on running board or in compartment
- Positive grip
- One-hand release
- Fits 1.5" hose thread (except NPSH)
- Material: Brass with chrome-plated finish



471 Underwriters Test Plug

- For testing pressure and vacuum on pumpers
- Aluminum body with black face and aluminum lettering







S-320 Running Board Holder

- For mounting nozzles and accessories on running board or in compartment
- Available in sizes from 1.5" to 2.5"
- Male NH hose thread only
- Material: Cast brass with chrome-plated finish



315 Barrel Suction Strainer

- Complies with NFPA 1901
- Conforms to MIL-S-12165B, Type 1
- Rocker lugs or pin lugs (Specify)
- Available bases: 2.5" thru 6" female base, 2.5" or 3" male base (Specify)
- Cast brass construction with chrome-plated finish



315FN Barrel Strainer with Foot Valve

- Foot valve for holding water in suction hose during pump priming
- 3" female base
- Cast brass construction



632 Hose and Ladder Strap

- Flexible woven nylon with brass ends
- Fits ladder rungs up to 1-5/8"
- Strap width 1"
- Length: 42"



285 Hose Clamp

- For use with 1.5" to 3" hose, including double jacket 3"
- Unique jaw design allows for safer release of clamped hose
- Spring-loaded safety lock for closed position
- Detachable carrying handle
- ZA-27 aluminum construction
- 285-MB optional hard coated aluminum mounting bracket can be positioned vertically or horizontally





HOSE TO HOSE ADAPTERS

318 Brass Female to Male Adapter

- Cast brass adapter for 3.5" and larger sizes
- Cast brass or chrome-plated finish
- Pin lugs for tightening / loosening

Hose Thread Options

- Cast brass adapter for 3.5" and larger sizes
- 3.5" female inlet x 2.5" male outlet
- 4.0" female inlet x 2.5" male outlet
- 4.5" female inlet x 2.5" male outlet
- 4.5" female inlet x 4.0" male outlet
- 6.0" female inlet x 4.0" male outlet
- 6.0" female inlet x 5.5" male outlet
- 6.0" female inlet x 5.0" male outlet



A-327A Plate Reducer

Aluminum Female to Male Adapter

- 2.5" female rigid inlet x 1.5" male outlet
- Rocker lug style
- Durable lightweight aluminum construction



A-327 Plate Reducer

Brass Female to Male Adapter

- Rocker lug style
- Rugged cast brass construction
- Cast brass or chrome-plated finish

Hose Thread Options

- 1.5" female inlet x 1.5" male outlet
- 1.5" female inlet x 2.5" male outlet
- 2.5" female inlet x 1.5" male outlet
- 2.5" female inlet x 2.0" male outlet
- 2.5" female inlet x 2.5" male outlet
- 2.5" female inlet x 3.0" male outlet
- 3.0" female inlet x 2.5" male outlet3.0" female inlet x 3.0" male outlet



D-327A Bell Reducer

- 2.5" female rigid inlet x 1.5" male outlet
- Rocker lug style
- Durable lightweight aluminum construction

102A Aluminum Swiveling Bell Reducer

- .5" female swivel inlet x 1.5" male outlet
- Low profile knurling
- Durable lightweight aluminum construction
- Hard coated aluminum finish



HOSE TO HOSE ADAPTERS CONTINUED

F-327A Aluminum Double Female Adapter

- Rocker lug style
- Durable lightweight aluminum construction
- Hard coated aluminum finish

Hose Thread Options

- 1.5" female x 1.5" female
- 2.5" female x 2.5" female



F-327 Brass Double Female Adapter

- Rocker lug style
- Cast brass construction
- Cast brass or chrome-plated finish

Hose Thread Options

- 1.5" female x 1.5" female
- 2.5" female x 2.5" female



M-327A Aluminum Double Female Adapter

- Rocker lug style
- Durable lightweight aluminum construction
- Hard coated aluminum finish

Hose Thread Options

- 1.5" male x 1.5" male
- 2.5" male x 2.5" male



M-327 Brass Double Male Adapter

- Rocker lug style
- Cast brass construction
- Cast brass or chrome-plated finish

Hose Thread Options

- 1.5" male x 1.5" male
- 2.5" male x 2.5" male



S-327 Brass Swiveling Reducer

- Rocker lug style
- Cast brass construction
- Cast brass or chrome-plated finish

Hose Thread Options

- 2.5" female x 1.5" male
- 2.5" female x 2.5" male
- 3.0" female x 3.0" male



HOSE TO PIPE ADAPTERS

306 Brass Double Male Hose Nipple

- For adapting from NPT to hose threads
- Cast brass construction
- Cast brass or chrome-plated finish

Options

- 1.0" NPT male x 1.0" male
- 1.5" NPT male x 1.5" male
- 2.5" NPT male x 2.5" male
- 3.0" NPT male x 2.5" male

3060 Brass Double Female Hose Nipple

- For adapting from NPT to hose threads
- Cast brass construction
- Cast brass or chrome-plated finish

Options

- 1.5" NPT female x 1.5" female
- 2.5" NPT female x 2.5" female

307 Brass Female to Male Nipple

- For adapting from NPT to hose threads
- Cast brass construction
- Cast brass or chrome-plated finish

Options

- 1.5" NPT female x 1.5" male
- 2.5" NPT female x 1.5" male
- 2.5" NPT female x 2.5" male
- 3.0" NPT female x 1.5" male







CAPS AND PLUGS

310 Brass Long Handle Cap

- Long handle style
- Cast brass construction
- Cast brass or chrome-plated finish
- Available with 9.0" or 16.0" chain (22.86 cm or 40.64 cm)

Options

- 2.5" female
- 4.0" female
- 4.5" female
- 5.0" female



311 Brass Rocker Lug Plug

- Rocker lug style
- Cast brass construction
- Cast brass or chrome-plated finish
- Available with 9.0" or 16.0" chain (22.86 cm or 40.64 cm)

Options

- 1.5" male
- 2.5" male
- 3.0" male



311A Aluminum Rocker Lug Plug

- Rocker lug style
- Durable lightweight aluminum construction
- Hard coated aluminum finish
- Available with 9.0" or 16.0" chain (22.86 cm or 40.64 cm)

Options

• 2.5" male



310 Brass Rocker Lug Cap

- Rocker lug style
- Cast brass construction
- Cast brass or chrome-plated finish
- Available with 9.0" or 16.0" chain (22.86 cm or 40.64 cm)

Options

- 1.5" female
- 2.5" female
- 3.0" female



310A Aluminum Rocker Lug Cap

- Rocker lug style
- Durable lightweight aluminum construction
- Hard coated aluminum finish
- Available with 9.0" or 16.0" chain (22.86 cm or 40.64 cm)

Options

- 1.5" female
- 2.5" female



310A Light Weight Storz Locking Cap

- Durable lightweight aluminum construction
- Hard coated aluminum finish
- Furnished with 18.0" vinyl-coated cable (45.72 cm)

Options

- 4.0"
- **5.0**"



MORE INFORMATION



FIELD KITS

Elkhart Brass offers field service kits for nozzles, valves and appliances.
These kits include information on repairs, parts and service. Learn more at elkhartbrass.com or contact a representative today.

TECHNICAL DATA

Available on our website in Technical Data section or by contacting Elkhart Brass direct, find multimedia and other valuable resources for reach, friction loss, flow and performance data, and much more.

MANUALS

Elkhart Brass and its products are supported through comprehensive manuals for most categories. Find downloads at elkhartbrass.com with all of the product information you should need.

SPECIFICATIONS

Downloadable, printable specifications sheets are available for most products at the Elkhart Brass website. You will find tips, sizes, materials used, certain operational instructions, and more.

UNIBODY CONFIGURATOR

Configure your Unibody Valve assembly at unibodyconfigurator.com. You can also download the spec sheets and CAD drawings specific to your desired configuration.

CONFIGURE YOURS AT: unibodyconfigurator.com

HOW TO ORDER

Sales Managers are listed by your location on our website.
This includes The United States, Canada, Mexico, Europe, Africa, Asia, and more. They will assist with information or ordering and will also provide demos of products by request and availability.

OTHERMARKETS WESTERVE Elkhart Brass has for decade

Elkhart Brass has for decades, even over a century with some, served the firefighting equipment and fire protection markets. These include OEM vehicle builders, municipalities throughout the world, industrial customers like mining and construction segments, and building interior safety systems.









ABOUT SAFE FLEET

In 2015, Elkhart Brass was acquired by Safe Fleet. The corporation's portfolio of brands serves major markets including Emergency, Military, Industrial, Work Truck, Waste, Truck/Trailer, and Bus/Rail/RV. The combination of Elkhart Brass with FRC, FoamPro and ROM enables the company to develop integrated systems of monitors, valves, foam proportioning and electronic controls for the global emergency market. Headquartered in Belton, MO, Safe Fleet employs over 1000 employees. The Safe Fleet family of brands operates over 500,000 square feet of manufacturing space and targets markets with increasing demand for operator, passenger and pedestrian safety. For more information about Safe Fleet you can visit www.safefleet.net.



Driving Safety Forward™



















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TAKE ACTION elkhartbrass.com

Since 1902 Elkhart Brass has been an innovator in the fire protection and firefighting equipment industries. Today, with well over 2,000 products, the company has become a leader in the various markets served. Find out more by visiting the elkhartbrass.com website, social media channels, Knowledge Drop and other training, educational and product videos; and see more details. There are many resources available to help you find and enjoy the right product solution at Elkhart Brass.



A Safe Fleet Brand

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Follow us on all of these social media channels for the latest information about Elkhart Brass products.











For official Elkhart Brass merchandise visit our store at www.elkhartbrass.shop





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BUILDING SYSTEMS FIRE EQUIPMENT

STANDPIPE VALVES / BUILDING CONNECTIONS / STANDPIPE ESSENTIALS / FLOW TESTING



TAKING SAFETY TO HART **BETTER EQUIPPED FOR SAFETY**

PMENT ELKHART BRASS MFG. CO., INC. ■ +1 574.295.8330 ■ FAX: +1 574.293.9914 ■ elkhartbrass.com

Understanding the needs of building owners, contractors, fire protection engineers and firefighters, and offering quality products and solutions set Elkhart Brass apart. We are the industry's most experienced manufacturer of innovative firefighting and fire protection equipment. Manufacturing over 2,000 products, used in virtually every aspect of firefighting, makes Elkhart Brass a leader. Our products are found in building systems around the world, in fire departments and off-shore drilling sites, as well as in military, marine, mining and other industrial firefighting applications.

VALVES	
Standpipe Valves	(
URFA™ Field Adjustable Pressure Reducing Valves	C
UR Factory Set Pressure Reducing Valves	1
UP Pressure Restricting Valves	1
U Angle Hose Valves	1
BUILDING CONNECTIONS	
Free Standing	1
Exposed	2
Flush	2
Flush Inlet	2
Flush 4-way Inlet	2
Flush Outlet	2
Flush 4-way Outlet	3
Body Sub-Assemblies	3
Roof Manifolds	3
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STANDPIPE ESSENTIALS	
Standpipe Bag	3
Digital / Analog Gauges	4
FLOW ESSENTIALS	
Flow Meter	4
Flow Testing	4

MORE INFORMATION

WHO WE ARE

WE'VE BEEN AROUND

Well known for its commitment to quality, value and customer service, Elkhart Brass celebrated its 100th anniversary in 2002. In 2015, Elkhart Brass was acquired by Safe Fleet creating the leading global provider of safety solutions for fleet vehicles. The combination of Elkhart Brass with FRC and Foam Pro enables the company to develop integrated systems of monitors, valves, foam proportioning, and electronic controls for the global emergency market. Elkhart Brass still operates at its original site in Elkhart, Indiana, utilizing the in-house foundry where aluminum and brass are poured daily. In addition to manufacturing, Elkhart Brass also specializes in product research and development, engineering, and product testing thanks to 3D rapid prototyping capabilities, a dedicated flow test facility, and a complete product machine shop.

CERTIFICATIONS AND QUALITY

Elkhart Brass is committed to quality, as demonstrated by its ISO-9001 Registered Quality System. Striving for ways to streamline processes while maintaining the quality craftsmanship customers expect, the company has excelled. An on-site foundry assures accurate documentation and quality of materials. On-site testing facilities are also a benefit. Because firefighting is a dangerous occupation, the company makes a serious commitment to you by doing everything in its power to assure that when you use Elkhart Brass products, you have the highest quality and safest equipment available in the industry. As part of that commitment to quality, it continually strives to evaluate and innovate products, including upgrading certification credentials. Contact Elkhart Brass for further details or questions about a specific certification.

WARRANTY

Products are warranted in accordance with and subject to terms and conditions of Seller's standard Warranty Statement in effect on the date the applicable order is submitted. See Warranty Statement on website at www.safefleet.net/documents/ and download Elkhart Brass warranty document or use mobile phone to view here:





BUILDING SYSTEMS EDUCATION AND FACT-BASED EQUIPMENT SELECTION

Utilizing some of the country's top high rise firefighting instructors, we are checking our emotions at the door and presenting the pros and cons of the relevant firefighting and protection topics. Part Art. Part Science. This educational video series will be sure to leave you better informed about valves, building connections, flow essentials and other operations as a discipline.



Watch the entire series at: BrassTacksHardFacts.com



MOBILE APP

EVERYTHING NEEDED FOR FLOW TESTING NOW AT YOUR FINGERTIPS

- Smooth Bore Discharges & Flow/Pressure
- Nozzle Reaction for Smooth Bore Nozzles
- Nozzle Reaction for Fog Nozzles
- Pump Discharge Pressure for standard layouts, with ability to input hose coefficient depending on make and inside diameter
- Pump Discharge Pressure with elevation changes and appliances
- Pump Discharge Pressure for high-rise layouts
- Fire flow formula calculators for both the NFA and lowa Formulas
- Also included in the app are direct links to the Brass Tacks Hard Facts video series

AVAILABLE FOR FREE DOWNLOAD







FIELD ADJUSTABLE REDUCING / FACTORY SET REDUCING / PRESSURE RESTRICTING / ANGLE HOSE

STANDPIPE VALVES



URFA™ Field Adjustable Pressure Reducing Valves

The Elkhart Brass URFA™ field adjustable pressure reducing valve (PRV) is the original fire ground adjustable valve used worldwide. It provides firefighters the ability to easily adjust valve outlet pressure to ensure adequate reach, safety of the firefighter, and efficient attack and extinguishing of fire. The URFA valve design incorporates the flexibility and reliability required by modern highrise sprinkler systems and standpipe fire protection applications. The URFA valves are UL Listed and City of New York Fire Department approved.

- Support up to 400 psi (27.6 BAR) inlet pressure under both flow and static conditions
- Easy to operate with less than 15 ft/lbs to open/ close or adjust pressure setting
- Gauge taps for ease of pressure gauge install, and supervisory switch for tamper proofing
- 2.5" FNPT inlet
- 2.5" FNPT and NHT outlet
- Angle and straight valve options



UR Factory Set Pressure Reducing Valves

The Elkhart Brass UR factory set pressure reducing valve is designed to operate automatically via inner hydraulic controls without diaphragms, springs or outside control mechanism. The action of the pressure reducing valve is completely dependent on the conditions at the nozzle or sprinkler system. The UR valves are UL Listed.

- Support up to 400 psi (27.6 BAR) inlet pressure under both flow and static conditions
- Most flow efficient of its class supporting up to 500 gpm (1900 LPM) flow rate
- Brass construction allows for use in corrosive and non-corrosive environment applications
- 1.5" and 2.5" FNPT inlet
- 1.5" and 2.5" FNPT and NHT outlet

Designed for flow efficiency, ease of install and rapid deployment, the Elkhart Brass standpipe valves offer the reliability and versatility required for modern high-rise and standpipe fire protection applications. These valves have major global and regional certifications in UL, FM and City of New York approval and comply with NFPA 14 requirements.



UP Pressure Restricting Valves

The Elkhart Brass UP pressure restricting valves design enables a range of valve outlet pressures adjustment under flowing condition. The UP valves are both factory and field settable and are available in 1.5" and 2.5" inlet/outlet sizes and offered in angle style with NPT and NHT threading options. The UP valves are UL Listed and FM Approved.

- Compact size enables ease of installation
- Support up to 400 psi (27.5 BAR) static and dynamic pressure
- Supports up to 500 gpm (1900 LPM) flow rate
- Brass and bronze construction enable use in corrosive and non-corrosive environment
- 1.5" and 2.5" FNPT inlet
- 1.5" and 2.5" FNPT and NHT outlet



U Angle Hose Valve

The Elkhart Brass U angle valves are used in firefighting piping systems as Fire Department outlet connection or Fire Hose Rack assembly connection. They are available in 1.5" and 2.5" inlet/outlet sizes and offered in angle style with NPT and NHT threading options. The U valves are UL Listed and FM Approved.

- Compact size enables ease of installation
- Support up to 300 psi (20.6 BAR) static and dynamic pressure
- Supports up to 500 gpm (1900 LPM) flow rate
- Brass and bronze construction enable use in corrosive and non-corrosive environment
- 1.5" and 2.5" FNPT inlet
- 1.5" and 2.5" FNPT and NHT outlet

URFA FIELD ADJUSTABLE PRESSURE REDUCING VALVES



Elkhart's patented URFA™ valve is a true pressure reducing valve operated automatically by inner hydraulic controls. While the valves are pre-set at the factory, they are field adjustable, allowing the user to manually adjust the pressure. The URFA features manual valve open and close, as well as pressure adjustment, all of which require extremely low torque to change. Inlet pressure up to 400 psi (27.6 BAR) is controlled under all-flow and no-flow conditions. Valve size and weight permit installation in significantly tighter areas and smaller hose cabinets (those used for 1.5" or 2.5" valves) allowing savings of both space and money. The URFA also functions as a floor control valve in automatic sprinkler systems as well as a standpipe valve or hose valve for Class I and Class III systems.

FEATURES:

- Reduces pressure under flow and no-flow
- Static pressure rated up to 400 psi (27.6 BAR)
- Flow rated up to 500 gpm (1900 LPM)
- Low torque manual open/close requires less than 15 ft/lbs
- 4 pressure gauge taps on both inlet and outlet sides
- Compact valve design enables small constraint installation
- 180° view of open/close indication
- Color-coded pressure adjustment indicator
- Optional supervisory switch for "OPEN TO SIGNAL" or "CLOSE TO SIGNAL"
- UL Listed and City of New York Fire Department approved
- Complies with NFPA 13 and NFPA 14



URFA-20

- 2.5" female NPT inlet x 2.5" female NPT
- Rough Brass finish
- Chrome Finish optional



URFA-20S

- 2.5" female NPT inlet x 2.5" female NPT
- Rough Brass finish
- Chrome Finish optional



URFA-25

- 2.5" female NPT inlet x 2.5" male NHT
- Rough Brass finish
- Chrome Finish optional



UR FACTORY SET PRESSURE REDUCING VALVES



Elkhart's Pressure-Matic® is a true pressure reducing valve, operated automatically by inner hydraulic controls. No diaphragms, springs or outside controls are involved with the unit, the action being completely dependent upon conditions at the nozzle or sprinkler system. Elkhart Brass offers 18 different valve pressure types/ranges for building systems. Inlet pressure up to 400 psi (27.6 BAR) is controlled under all flow and no-flow conditions. The UR valve series may be used as a standard shut-off. The valves are completely tamperproof. They fit all existing cabinets where 1.5" or 2.5" valves are currently in use.

PRESSURE-MATIC® VALVE USES:

- Floor Control Valve
- Standpipe System
- Automatic Sprinkler Systems
- UL Listed as a check valve for use in dual riser systems

UR-20-1.5

- 1.5" female NPT inlet x 1.5" female NPT
- Rough Brass finish
- Chrome Finish optional

UL LISTED UL LISTED

UR-20-2.5

- 2.5" female NPT inlet x 2.5" female NPT
- Rough Brass finish
- Chrome Finish optional

UR-25-1.5

- 1.5" female NPT inlet x 1.5" male NHT
- Rough Brass finish
- Chrome Finish optional



UR-25-2.5

- 2.5" female NPT inlet x 2.5" male NHT
- Rough Brass finish
- Chrome Finish optional

UR-20S-2.5

- 2.5" female NPT inlet x 2.5" female NPT
- Rough Brass finish
- Chrome Finish optional



UP PRESSURE RESTRICTING VALVES



Pressure restricting valves from Elkhart Brass all feature rugged cast brass construction in your choice of finishes. The pressure restricting valves feature rubber seats and are rated for use at 175 psi (12 BAR). Although factory setting is recommended, all the pressure restricting valves are field settable.

PRESSURE RESTRICTING VALVES:

- Reduce pressure under flowing conditions
- Allow fire departments to override settings in emergency conditions
- Select models are UL Listed and/or FM Approved

UP-20-1.5

- 1.5" female NPT inlet x 1.5" female NPT
- Rated for 175 psi (12 BAR)
- Rough Brass finish
- Chrome Finish optional

UP-20-2.5

- 2.5" female NPT inlet x 2.5" female NPT
- Rated for 175 psi (12 BAR)
- Rough Brass finish
- Chrome Finish optional

UP-25-1.5

- 1.5" female NPT inlet x 1.5" male NHT
- Rated for 175 psi (12 BAR)
- Rough Brass finish
- Chrome Finish optional

UP-25-2.5

- 2.5" female NPT inlet x 2.5" male NHT
- Rated for 175 psi (12 BAR)
- Rough Brass finish
- Chrome Finish optional

UP-30-1.5

• 1.5" female NPT inlet x 1.5" male NHT

OR

- 1.5" female NPT inlet x 1.5" female NPT
- Specify 175 psi (12 BAR) or 300 psi (20.7 BAR)
- Rough Brass finish

UP-35-2.5

2.5" female NPT inlet x 1.5" male NHT

OR

- 2.5" female NPT inlet x 1.5" female NPT
- Specify 175 psi (12 BAR) or 300 psi (20.7 BAR)
- Rough Brass finish



UL LISTED

UL) LISTED







U ANGLE HOSE VALVES



The Elkhart Brass U angle valves are used in firefighting piping systems as Fire Department outlet connection or Fire Hose Rack assembly connection. They are available in 1.5" and 2.5" inlet/outlet sizes and offered in angle style with NPT and NHT threading options. The U valves are UL Listed and FM Approved.

FEATURES:

- Compact size enables ease of installation
- Support up to 300 psi (20.70 BAR) static and dynamic pressure
- Supports up to 500 gpm (1900 LPM) flow rate
- Brass and bronze construction enable use in corrosive and non-corrosive environments
- 1.5" or 2.5" FNPT inlet
- 1.5" or 2.5" FNPT and NHT outlet
- Select models are UL Listed and/or FM Approved

U-20-1.5

- 1.5" female NPT inlet x 1.5" female NPT
- Rated for 175 psi (12 BAR)
- Rough Brass finish
- Chrome Finish optional



U-20-2.5

- 2.5" female NPT inlet x 2.5" female NPT
- Rated for 175 psi (12 BAR)
- Rough Brass finish
- Chrome Finish optional





U-25-1.5

- 1.5" female NPT inlet x 1.5" male NHT
- Rated for 175 psi (12 BAR)
- Rough Brass finish
- Chrome Finish optional





U-25-2.5

- 2.5" female NPT inlet x 2.5" male NHT
- Rated for 175 psi (12 BAR)
- Rough Brass finish
- Chrome Finish optional





U-30-1.5

U-30-2.5

• 1.5" female NPT inlet x 1.5" male NHT

1.5" female NPT inlet x 1.5" female NPT

• 2.5" female NPT inlet x 1.5" male NHT

2.5" female NPT inlet x 1.5" female NPT

Rated for 300 psi (20.7 BAR)

Rated for 300 psi (20.7 BAR)

Rough Brass finish

Rough Brass finish





















FREE STANDING

BUILDING CONNECTIONS



The Elkhart Brass 90° free standing inlet connections as well as the 90° free standing hydrants and pump test connection come furnished with plugs, chains, escutcheons and an 18" sleeve for standpipe cover.

- Brass construction with outstanding corrosion resistance
- Polished brass and chrome finish options
- Free standing inlet with 4" NPT outlet size and 2.5" female NHT inlets
- Hydrants with 4" NPT inlet and 2" male NHT outlets
- Pump test with 4" NPT inlet size and 2.5" male NHT outlets
- Select models are UL Listed and FM Approved





OTHER PRODUCTS

154-S – A cast brass valve control for actuating underground mounted valve, used with Elkhart's model #16 (a sidewalk type hydrant), is available. The 154-S comes with a %" square steel extension rod that is 24" long and has a special coupling for attaching to stem of gate valve. Additionally, a cap, chain and sleeve are included. Please specify polished brass or polished chrome plated sleeve. Note: a 2.5" hole is required in the concrete slab, as well as a 1.5" nipple and locknut.

15-2W

FIG. 1

	2.5	MBER " F N NLET:	HT		PPER PE		IFICA- ONS		ME	ASUREM	ENTS (INC	CHES)			AILAI UTCHI		F	INISI	Н			
NPT OUTLET SIZE (INCHES)	2	3	4	Body (Drop)	Snoot	FM Approved	U.L. Listed	A	В	С	D	E	F	Auto-Spkr	Standpipe	Standpipe and Auto -Spkr	Rough Brass	Polished Brass	Polished Chrome	Weight (lbs)	Model	Figure
4	•			•		•	•	91/4	87/16	1/2	18¼	2311/16	2311/16	•	•	•	s	0	0	30	15-2W 4"*	1

 $\label{KEY} KEY\ s = standard \quad o = option \\ ^*Can\ order\ parts\ (sleeve\ or\ body\ with\ clapper)\ separately.$

 Each 2.5" NHT inlet has a rated flow of 250 gpm (950 LPM)

ADDITIONAL INFORMATION

 The sidewalk bodies are rated for 175 psi (12.1 BAR)

Supplied with plugs and chains

Unless otherwise noted, all hose threads are NHT

THREADS

16-2W/16-P-2W

		2.5	MBEF " M N Utlet	HT	CERTIFICA- TIONS		MEA	SUREME	NTS (INC	CHES)			LABLE CHEONS	F	INIS	Н			
Туре	NPT INLET SIZE (INCHES)	2	3	4	FM APPROVED	A	В	С	D	E	F	Hydrant	Pump Test Conn.	Rough Brass	Polished Brass	Polished Chrome	Weight (lbs)	Model	Figure
Hydrants	4	•			•	91/4	8 ⁵ / ₁₆	1/2	18 ¹ / ₄	20 ⁷ / ₈	23 ² / ₃	•		s	o	o	30	16-2W 4"*	1
Connect-	4	•				91/4	8 ⁵ / ₁₆	1/2	181/4	20 ⁷ / ₈	232/4		•	s	o	o	30	16-P 2W 4"	1

KEY s = standard o = option *Can order parts (sleeve or body with clapper) separately.

FIG. 1

ADDITIONAL INFORMATION

- Each outlet has a rated flow of 250 gpm (950 LPM)
- The sidewalk bodies are rated for 175 psi (12.1 BAR)
- Supplied with caps and chains

THREADS

Unless otherwise noted, all hose threads are NHT





EXPOSED BUILDING CONNECTIONS



The Elkhart Brass exposed fire department connections include standpipe and 90° post or wall mount options.

- Brass construction with outstanding corrosion resistance
- Rough brass, polished brass and chrome finish options
- Exposed inlet with 4" NPT and 6.0-inch NPT outlet size with two or three female 2.5" NHT inlet options
- Exposed outlet with 4" NPT inlet size and 2.5" male NHT outlets
- Select models are UL Listed and FM Approved

EXPOSED OUTLET

		ME	ASURE	MENTS	S (INC	IES)	AVAILABLE ESCUTCHEON LETTERING			FINISH					
FEMALE NPT INLET SIZE (INCHES)	MALE HOSE OUTLET	A	В	С	D	н	WALL HYDRANT	FM Approved	Cast Brass	Polished Brass	Polished Brass	Weight (lbs)	Model	Figure	
4	2 1/2	10 ³ / ₁₆	8 1/2	5 ¹ / ₆	6 ¹ / ₁₆	10 ³ / ₁₆	s		s	О	О	13	143	1	

ADDITIONAL INFORMATION

- Bodies rated for 175 psi (12.1 BAR)
- Each 2.5" M NHT outlet has a rated flow of 250 gpm (950 LPM)
- Supplied with caps and chains

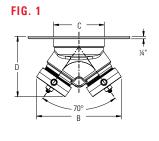
THREADS

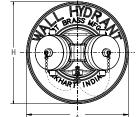
Unless otherwise noted, all hose threads are NHT.

KEY s = standard o = option

143

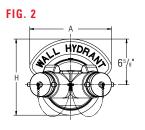
 Furnished with aluminum escutcheon painted red





153

Furnished with flat escutcheon (10.5" x 7" high)



EXPOSED INLET

	2.5" I	BER OF NHT ETS	CLAF	PPER		MEASUR	EMENTS ((INCHES)			AILAE ITERI			IFICA-	F	INIS	Н			
NPT OUTLET SIZE (INCHES)	2	3	Individual Drop	Swinging	A	В	С	D	Swing Radius	Auto-Spkr	Standpipe	Standpipe and Auto-Spkr	FM Approved	U.L. Listed	Cast Brass	Polished Brass	Polished Chrome	Weight (lbs)	Model	Figure
	•			•	5 ¹⁵ / ₁₆	9 1/8	5 ¹ / ₁₆	4		s			•	•	s	0		9	11	1
	•		•		7 ⁹ / ₁₆	11 ⁵ / ₁₆	5 ¹ / ₄			s	0		•	•	s	0	О	16	12 4"	3
4	•		•		8 3/4	12 ³ / ₄	5 ¹ / ₂	11 ¹ / ₁₆		s	0	0	•	•	s	0	О	24 1/2	156 4"	6
	•		•		9 ³ / ₁₆	11 ³ / ₄	5 ¹ / ₄	5 ⁷ / ₁₆	7 ³ / ₈	s	0		•	•	s	0	О	20 1/2	10 4"	4
		•	•		8 ⁷ / ₈	13 ¹⁵ / ₁₆	7 ¹ / ₄	4							s	0	0	25 ¹ / ₂	18 6"*	2
	•		•		10	11 ¹ / ₂	7 ¹ / ₂			s	0		•		s	0	0	25	12 6"	3
6	•		•		10 15/16	12 3/4	7 1/2	11 ¹ / ₁₆		s	0	0	•		s	0	О	33 3/4	156 6"	6
	•		•		11 ⁹ / ₁₆	11 ³ / ₁₆	7 1/2	5 ⁹ / ₁₆	8 ⁵ / ₁₆	s	0		•		s	0	О	23 1/4	10 6"	4
		•	•		11 ¹ / ₈	11 ⁷ / ₈	7 ¹ / ₈		7 ¹³ / ₁₆						s	0	0	25	29	5

KEY s = standard o = option *Escutcheons sold separately.

ADDITIONAL INFORMATION

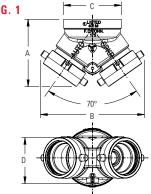
Each 2.5" NHT inlet has a rated flow of 250 gpm (946 LPM)

- Elkhart Brass' sidewalk bodies are rated for 175 psi (12.1 BAR)
- Supplied with plugs (#311) and chains

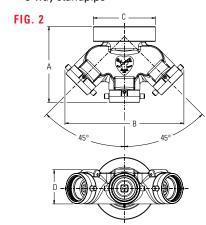
THREADS

Unless otherwise noted, all hose threads are NHT

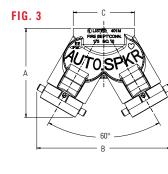
Single clapper

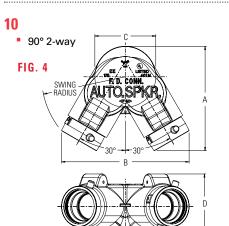


3-way standpipe

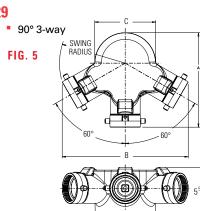


2-way standpipe

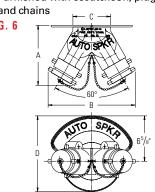




29

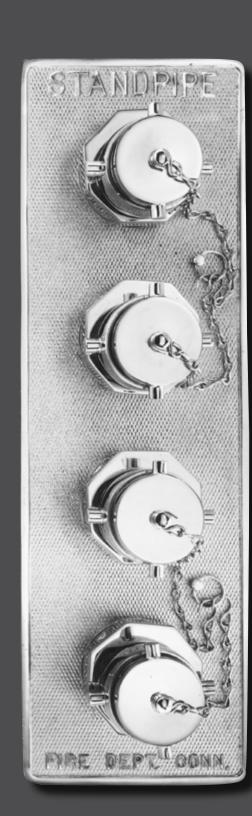


 Furnished with escutcheon, plugs and chains





FLUSH BUILDING CONNECTIONS



The Elkhart Brass flush and 4-way connections designs enable selection from a wide range of configurations for various applications.

- Brass construction with outstanding corrosion
- Polished brass and chrome finish options
- Wall mount options furnished with chains, escutcheons, plugs (inlets only) and caps (outlets only)
- 4-way inlet connections feature snoots on each of the four 2.5" outlet and are furnished with plugs and chain assemblies
- 4-way outlet connections have caps and chain assemblies as well as hex adapter
- Select models are UL Listed and FM Approved





FLUSHINLET

FLUSH INLET

				INL	_	07/	.																	AILAE							
		1.5"	NH	1 (F) 2.5"		STO 4"	JKZ 5"		OD YP					М	EASUR	EMEN	rs (INC	HES)			CE		ESCI LET	JTCH Teri			TERI NIS				
											p Clapper							,								BRA	ASS				
0	NPT UTLET SIZE nches)	1	1	2	3	1	1	Straight	Inverted 90°	.06	Individual Drop Clapper	A	В	С	D	E	F	G	Н	J	FM Approved	U.L. Listed	Auto-Spkr	Standpipe	Standpipe and Auto-Spkr	Polished Brass	Polished Chrome	Lightweight Aluminum	Weight (Ibs)	Model	Figure
	1 ¹ / ₂	•						•							3 ¹⁷ / ₃₂					4 ³ / ₈			s					s	1 ¹ / ₄	141	1
	2		•					•							43/8					71/2			0	S		s	0		83/8	151-2.5	1
			•					•							43/8				7	10 ¹ / ₂			S	0		S	0		11	161-2.5	2
	3		•					•							41/2					7 ¹ / ₂			0	s		S	0		83/8	151-3	1
	<u> </u>		•					•							41/2				7	10 ¹ / ₂			S	0		S	0		11 ¹ / ₄	161-3	2
						•		•							6					12			S	0				S	6³/ ₈	171	1
							•	•						5 ²⁹ / ₃₂						12			s	0				S	10 ⁷ / ₈	171	1
	4			•				•			•	11	7 ¹ / ₂	5	6 ⁷ / ₁₆	3 ²⁵ / ₃₂	37/32			13 ³ / ₁₆	•	•	s	0	0	s	0		23	166-4-ST	3
				•						•	•	11 ¹ / ₂	71/2	5	6 ¹ / ₁₆	319/32	33/8	3 ¹ / ₁₆	5 ³ / ₈	13 ³ / ₁₆	•		s	0	0	s	0		26 ¹ / ₄	166-4-90	4
				•					•		•	11 ¹¹ / ₁₆	71/2	5	6 ¹ / ₄	33/4	33/8	4 ⁷ / ₁₆	7 ¹ / ₁₆	13 ³ / ₁₆			s	0	0	s	0		31	166-4-INV	5
						•		•							61/4					12			s	0				s	73/4	171	1
							•	•							61/4					12			S	0				S	10 ¹ / ₄	171	1
				•				•			•	11 ¹ / ₂	71/2	71/2	8	33/4	3 ⁵ / ₈			13 ³ / ₁₆	•		S	0	0	S	0		303/4	166-6-ST	3
	6			•						•	•	12	7 ⁵ / ₈	71/2	73/4	4	43/32	3 ⁷ / ₁₆	6 ¹⁵ / ₃₂	13 ³ / ₁₆	•		s	0	0	s	0		343/8	166-6-90	4
					•			•			•	17 ⁵ / ₁₆	6 ⁵ / ₈	73/8	6 ¹¹ / ₁₆	33/8	4 ¹ / ₁₆		4 ⁵ / ₁₆					s		S	0		68	167-W-ST	8
					•					•	•	17 ¹ / ₄	6 ⁵ / ₈	71/8	83/16	415/32	4	315/16	5 ¹⁵ / ₁₆	201/4				s		S	0		68	167-W-90	6
					•				•		•	17 ¹ / ₄	65/8	71/8	83/16	415/32	4	315/16	5 ¹⁵ / ₁₆	201/4				s		s	0		68	167-W-INV	7

KEY s = standard o = option

ADDITIONAL INFORMATION

- Bodies rated for 175 psi (12.1 BAR)
- Each 2.5" NHT inlet has a rated flow of 250 gpm (950 LPM)
- Supplied with plug(s) and chain(s)

THREADS

Unless otherwise noted, all hose threads are NHT

OTHER PRODUCTS

- See pages 27-28 for Flush 4-Way Inlet Connections
- 2.5" nipple required for all 166 and 167-W models Elkhart Brass does not supply
- On the 166, the body is roughed in during construction – escutcheon and nipple assemblies are installed after construction

141/151/171

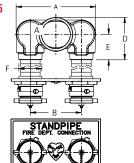
Furnished with round escutcheon

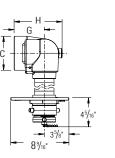


FIG. 5

166 90° INVERTED SIAMESE

Furnished with flat escutcheon

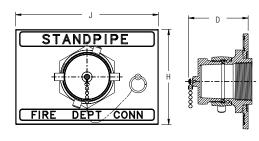




161

Furnished with flat escutcheon (10.5" x 7" high)

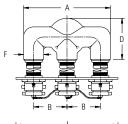
FIG. 2

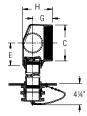


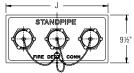
167-W 90° SIAMESE

Furnished with flat escutcheon

FIG. 6



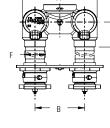




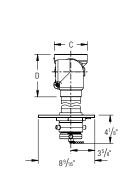
166 STRAIGHT **SIAMESE**

Furnished with flat escutcheon

FIG. 3



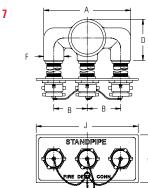


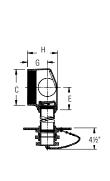


167-W 90° INVERTED SIAMESE

Furnished with flat escutcheon

FIG. 7

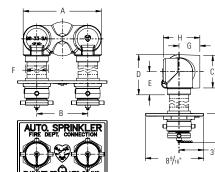




166 90° **SIAMESE**

Furnished with flat escutcheon

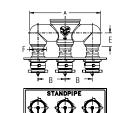
FIG. 4

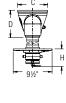


167-W

Furnished with flat escutcheon

FIG. 8





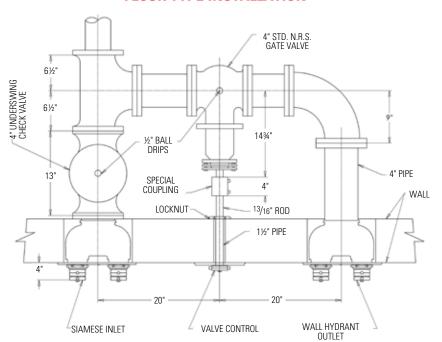
FLUSH 4-WAY INLET

FLUSH 4-WAY INLET

	TALLAT RECTIO		B0 TY			OOT PE	MEASUR (INC	EMENTS HES)	psi (BAR)	CERTIFICA- TION	ESCU	AVAII TCHEOI		ERING	FIN				
Vertical	Horizontal	Square	Straight	.06	Clapper	Spring Check	A	В	175 (12.1)	U.L. Listed	Auto-Spkr	Dry Standpipe	Standpipe	Standpipe and Auto-Spkr	Polished Brass	Polished Chrome	Weight (lbs)	Model	Figure
•				•	•		8	31 ³ / ₁₆	•	•	О	О	s	О	s	О	96	780	2
•			•	•			8	31 ³ / ₁₆	•	•	О	О	s	0	s	О	96	781	3
•			•		•		5 ⁵ / ₈	31 ³ / ₁₆	•	•	О	О	s	0	s	О	96	782	4
	•		•		•		5 ⁵ / ₈	31 ³ / ₁₆	•	•	О	О	s	0	s	О	96	783	5
		•		•		•		33/4	•		О	О	s	0	s	0	107 ⁷ / ₈	739*	1

KEY s = standard o = option*Can order body separately.

FLUSH TYPE INSTALLATION



ADDITIONAL INFORMATION

- Each 2.5" F NHT inlet has a rated flow of 250 gpm (950 LPM)
- 6" outlet connection
- Supplied with plugs and chains

THREADS

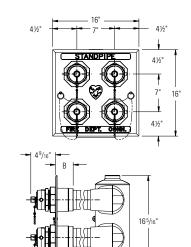
Unless otherwise noted, all hose threads are NHT

OTHER PRODUCTS

- See pages 25-26 for Flush Inlet Connections
- 3" NPT nipples required. Elkhart Brass does not supply

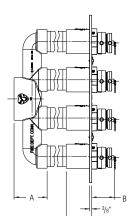
739

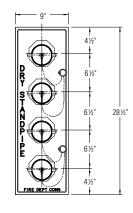
FIG. 1



782

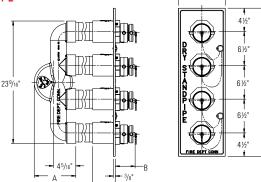
FIG. 4





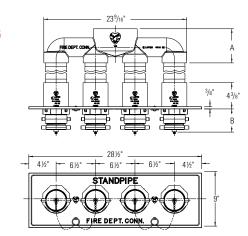
780

FIG. 2



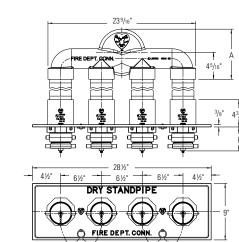
783

FIG. 5



781

FIG. 3



FLUSHOUTLET

FLUSH OUTLET

		0	UTLET	ſS	B0 TY	DY PE			M	EASURE	MENTS	(INCHI	ES)			AVAII ESCUT LETTE		FIN	ISH				
Туре		2.5	MBER " M N UTLET	HT													ıt	Brass	ırome	_			pe
	NPT INLET SIZE (Inches)	1	2	3	Straight	.06	A	В	С	D	E	F	G	Н	J	Pump Test	Wall Hydrant	Polished Br	Polished Chrome	Weight (lbs)	Model	Figure	FM Approved
	21/2	•					71/2			31/4							s	s	0	63/4	152 2.5"	1	
	21/2	•					10 ¹ / ₂			3 ¹ / ₄				7			S	S	0	93/8	162 2.5"	2	
	3	•					7 ¹ / ₂			3 ⁷ / ₁₆							S	S	0	53/4	152 3"	1	
Hydrant		•					10 ¹ / ₂			3 ⁷ / ₁₆				7			S	S	0	83/4	162 3"	2	
Ŧ	4		•		s		13 ³ / ₁₆	7 ¹ / ₂				5	6 ⁷ / ₁₆	89/16	11 ¹ / ₄		S	S	0	31	163 4" ST	3	•
			•			o	13 ³ / ₁₆	7 ¹ / ₂	33/8	3 ¹ / ₁₆	6 ¹³ / ₁₆	5	6 ⁵ / ₁₆	5 ³ / ₈	11 ¹ / ₂		S	S	0	283/4	163 4" 90	4	•
	6		•		s		13 ³ / ₁₆	7 ¹ / ₂				7 ¹ / ₂	8	89/16	11 ¹ / ₂		S	s	0	35 ¹ / ₄	163 6" ST	3	•
	0		•			s	12	7 ⁵ / ₈	4 ³ / ₃₂	3 ⁷ / ₁₆	4	7 ¹ / ₂	73/4	6 ¹⁵ / ₃₂			S	s	0	323/4	163 6" 90	4	•
	4		•		s		13 ³ / ₁₆	7 ¹ / ₂				5	6 ⁷ / ₁₆	89/16	11 ¹ / ₄	s		s	0	31	163P 4" ST	3	•
st	-		•			s	13 ³ / ₁₆	7 ¹ / ₂	33/8	3 ¹ / ₁₆	6 ¹³ / ₁₆	5	6 ⁵ / ₁₆	5 ³ / ₈	11 ¹ / ₂	s		s	0	283/4	163P 4" 90	4	•
p Te			•		s		13 ³ / ₁₆	7 ¹ / ₂				7 ¹ / ₂	8	89/16	11 ¹ / ₂	s		s	0	35 ¹ / ₄	163P 6" ST	3	•
Pump Test Connections	6		•			s	13 ³ / ₁₆	7 ⁵ / ₈	4 ³ / ₃₂	3 ⁷ / ₁₆	4	7 ¹ / ₂	7 ³ / ₄	⁵ / ₃₂	12	s		s	0	323/4	163P 6" 90	4	•
_ 3	0 [•	s		201/8	6 ⁵ / ₈				73/8	6 ¹ / ₈	9 ¹ / ₂	17 ⁵ / ₁₆	S		s	0	68	167-WP	5	
				•		s	201/4	6 ⁵ / ₈				71/8	8 ³ / ₁₆	9 ¹ / ₂	17 ¹ / ₄	S		S	0	701/2	167-WP 90	6	

KEY s = standard o = option

ADDITIONAL INFORMATION

- Bodies rated for 175 psi (12.1 BAR)
- Each 2.5" NHT outlet has a rated flow of 250 gpm (950 LPM)
- Supplied with cap(s) and chain(s)

THREADS

Unless otherwise noted, all hose threads are NHT

OTHER PRODUCTS

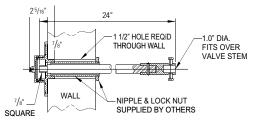
- See pages 31-32 for Flush 4-Way Outlet Connections
- 2.5" NPT nipple required for all 163, 163P and 167 WP models. Elkhart Brass does not supply this
- On the 163 and 163P, the body is roughed in during construction – escutcheon and nipple assemblies are installed after construction

OPTIONS

- 164 A cast brass valve control for use with Elkhart Brass model 163 is available. The 164 comes with a 7/8" square steel extension rod that is 24" long and has a special coupling for attaching to stem of gate valve. Additionally, a cap, chain and 7" square escutcheon are included. Please specify polished brass or polished chrome plated. Note: a 2.5" hole is required in the installation wall
- 480 Tee handle used with 164 control valve

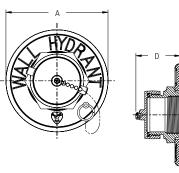
164





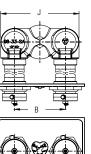
152

Furnished with 7.5" round escutcheon

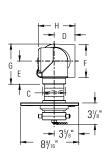


163/163P 90

Furnished with flat escutcheon



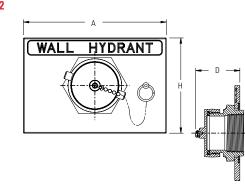




162

Furnished with flat escutcheon (10.5" x 7" high)

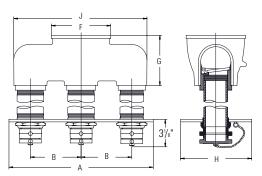
FIG. 2



167 WP STRAIGHT

Furnished with flat escutcheon

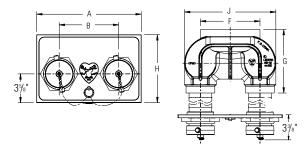
FIG. 5



163/163P STRAIGHT

Furnished with flat escutcheon

FIG. 3



167-WP 90 FIG. 6



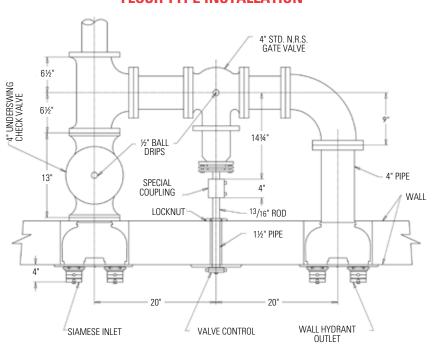
FLUSH 4-WAY OUTLET

FLUSH 4-WAY OUTLET

INSTAL	LATION DIR	ECTION	BODY TY	/PE	AVAII ESCUTCHEO	ABLE N LETTERING	FIN	ISH			
Vertical	Horizontal	Square	Straight	90°	Hydrant	Pump Test Conn.	Polished Brass	Polished Chrome	Weight (lbs)	Model	Figure
•			•		S		s	0	92	784	2
	•		•		s		s	0	92	785	3
	•			•	s		s	0	92	787	4
		•		•	s		s	0	109 ¹ / ₄	743	1
•			•			s	s	0	92	784-P	2
	•		•			s	s	0	92	785-P	3

KEY s = standard o = option

FLUSH TYPE INSTALLATION



ADDITIONAL INFORMATION

- Each 2.5" M NHT outlet has a rated flow of 250 gpm (950 LPM)
- Inlet connection is a 6" NPT
- Supplied with caps and chains
- Bodies rated for 175 psi (12.1 BAR)

THREADS

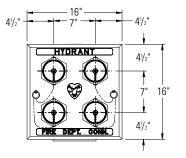
Unless otherwise noted, all hose threads are NHT

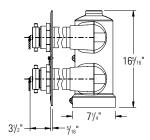
OTHER PRODUCTS

- See pages 25-26 for Flush Inlet Connections
- 3" NPT nipples required. Elkhart Brass does not supply

743

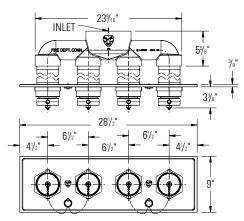
FIG. 1





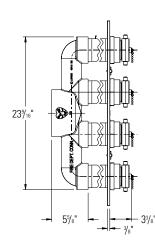
785/785-P

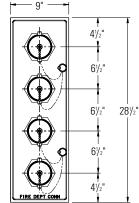
FIG. 3



784/784-P

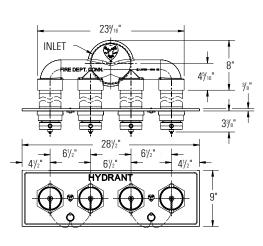
FIG. 2





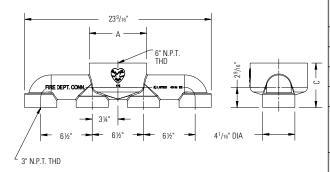
787

FIG. 4



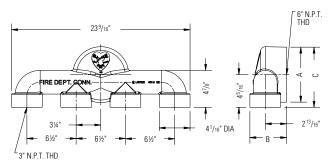
BODY SUB-ASSEMBLIES

4-WAY STRAIGHT MANIFOLD



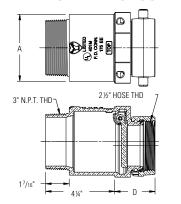
	MODEL 710
Size (Inches)	6" x (4) 3"
Escutcheon opening size (Inches)	4 1/4"
Dimension A (Inches)	7 1/4"
Dimension C (Inches)	5 5/8"
Material	Cast Brass
Elkhart products used in	782, 783, 784, 785
Additional uses	With Elkhart Brass 720 Clapper Snoot (without nipples) as an exposed inlet connection
Weight (lbs)	28 1/2
psi (BAR)	175 (12.1)
Certifications	UL Listed

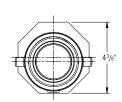
4-WAY 90° MANIFOLD



	MODEL 711
Size (Inches)	6" x (4) 3"
Escutcheon opening size (Inches)	4 1/4"
Dimension A (Inches)	7 1/4"
Dimension B (Inches)	4 13/16"
Dimension C (Inches)	7 15/16"
Material	Cast Brass
Elkhart products used in	780,781, 786, 787
Additional uses	With Elkhart Brass 720 Clapper Snoot (with- out nipples) as either a side walk intake connection or an exposed dry standpipe inlet connection
psi (BAR)	175 (12.1)
Certifications	UL Listed

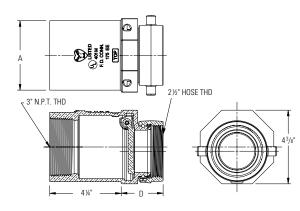
MALE CLAPPER SNOOT





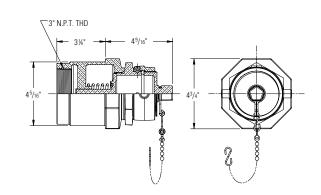
	MODEL 720
Openings (Inches)	3" M x 2.5" F
Dimension A (Inches)	4 1/4"
Dimension D (Inches)	2 1/2"
Material/Finish	Cast brass with polished brass exposed parts (optional chrome plated available)
Additional uses	Single fire department connection (plug and chain available separately)
Weight (lbs)	9 1/2
psi (BAR)	175 (12.1)
Certifications	UL Listed

FEMALE CLAPPER SNOOT



	MODEL 721
Size (Inches)	3" F x 2.5" F
Dimension A (Inches)	4 1/8"
Dimension D (Inches)	2 1/2"
Material/Finish	Cast brass with polished brass exposed parts (optional chrome plated available)
Elkhart products used in	780, 781, 782, 783
Additional uses	Single fire department connection (plug and chain available separately)
Weight (lbs)	9 1/2
psi (BAR)	175 (12.1)
Certifications	UL Listed

FEMALE SPRING CHECK SNOOT



	MODEL 723
Size (Inches)	3" F x 2½" or 3" F x 3"
Material/Finish	Cast brass with polished brass exposed parts (optional chrome plating available)
Available with	Plug
Spring check action	Open @ 10 psi (0.69 BAR) Flows 250 gpm (946 LPM) @ 12 psi (0.83 BAR) Flows 500 gpm (1893 LPM) @ 24 psi (1.65 BAR)
Weight (lbs)	12 1/4 or 11 3/5

ADDITIONAL INFORMATION

 Components rated for 175 psi (12.1 BAR), unless otherwise specified

THREADS

- 710 and 711 are NPT on all connections
- 720, 721, and 723 feature NPT inlets, while the outlets are hose thread (NHT)

OTHER PRODUCTS

- Flush Inlet (utilizing the components) are available on page 25-26
- Escutcheons available on pages 37-38

ROOF MANIFOLDS

& CONNECTIONS



Roof manifolds by Elkhart Brass provide water control when used in conjunction with hose or angle valves while roof connections can be used to disperse water to adjacent buildings.

- Brass construction with outstanding corrosion resistance
- 2.5" outlet rated at 250 gpm (950 LPM) per
- 4" or 6" inlet size
- Two or three number of outlets per manifold
- Select models are UL Listed



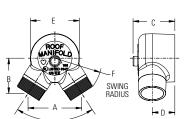


ROOF MANIFOLDS & CONNECTIONS

		OU1	LET		CERT.		ME	ASUREME		(St				
INLET SIZE	NUM	MBER	ST	YLE	U.L.							Weight (lbs)	le de	ıre
(INCHES)	2	3	MALE	FEMALE	LISTED	Α	В	С	D	E	F	We	Model	Figure
	•		•		•	5 ⁵ / ₈	3 ¹¹ / ₁₆	4 ³ / ₈	2 ³ / ₈	5 ¹ / ₈	4 ¹⁵ / ₁₆	8	168	1
	•			•	•	5	71/2	11	6 ⁷ / ₁₆			26 ¹ / ₄	158	3
4	•			•	•	5	6 ⁵ / ₈	12³/ ₈	5 ⁷ / ₈			16 ¹ / ₄	159	4
4	•		•		•	5 ¹ / ₁₆	5 ⁷ / ₁₆	7 ⁷ / ₈	5 ⁵ / ₈			93/4	751	6
		•	•		•	4 ¹ / ₅	5 ¹ / ₄	4 ¹³ / ₁₆	2 ¹ / ₂		43/8	10 ¹ / ₄	168	2
		•		•	•	5	6 ⁵ / ₈	19	5 ⁷ / ₈			27 ¹ / ₄	159	4
	•		•			5 ⁵ / ₈	411/16	4 ¹⁵ / ₁₆	2 ⁵ / ₈	71/4	5 ¹¹ / ₁₆	14 ¹ / ₄	168	1
	•			•	•	71/2	71/2	11 ¹ / ₂	8			26 ¹ / ₄	158	3
	•			•		71/4	6 ⁵ / ₈	12 ³ / ₈	7 ¹⁵ / ₁₆			31 ¹ / ₄	159	4
	•		•		•	71/2	91/2	1011/16	8			20 ¹ / ₄	755	7
6		•	•		•	5 ¹ / ₄	71/4	4 ¹⁵ / ₁₆	2 ¹¹ / ₁₆		5 ³ / ₈	15 ¹ / ₄	168	2
		•		•	•	73/8	6 ⁵ / ₈	17 ¹ / ₄	6 ¹ / ₈			24 ³ / ₈	158	3
		•		•	•	71/4	6 ⁵ / ₈	19	7 ¹⁵ / ₁₆			42 ³ / ₄	159	4
		•	•		•	71/2	43/4	10 ¹¹ / ₁₆	10 ¹ / ₂			203/8	761	5

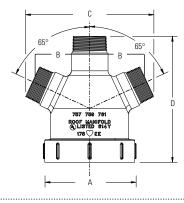


FIG. 1



761

FIG. 5



168

3-way

FIG. 2

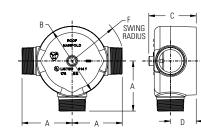
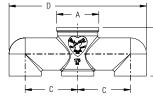
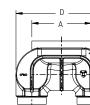




FIG. 3

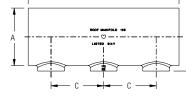


158 2-way



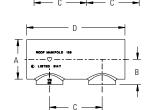
159

3-way FIG. 4



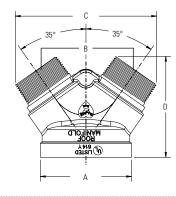
159

2-way



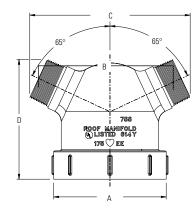
751

FIG. 6



755

FIG. 7



ADDITIONAL INFORMATION

- When ordering, specify model number, inlet size and number of outlets
- Each outlet has a rated flow of 250 gpm (946 LPM)
- Roof manifolds can be used in alternate applications and/or to test fire pump systems

THREADS

All threads are NPT unless otherwise specified

ROUND ESCUTCHEON PLATE

Elkhart Brass escutcheon plate designs enable identification of various fire department connections in aesthetically pleasing finishes.

- Brass construction with outstanding corrosion resistance
- Rough brass, polished brass, satin brass or chrome plated finish for brass escutcheons and red urethane finish for aluminum escutcheons
- Round and rectangular escutcheon plate designs
- Available lettering include:
 - Automatic Sprinkler
 - Dry Standpipe
 - Hydrant
 - **PumpTest Connection**
 - Standpipe
 - Standpipe and Automatic Sprinkler
 - Wall Hydrant



RECTANGULAR ESCUTCHEON PLATE



ROUND ESCUTCHEON PLATE

	MEASUR	EMENTS		AVAILABLE LETTERING OPTIONS							MATERIAL/FINISH						
											Brass Alun			Aluminum			
Pipe Size (Inches)	Inside Diameter	Outside Diameter	Thickness	Automatic Sprinkler	Dry Standpipe	Hydrant	Pump Test Conn.	Standpipe	Standpipe & Automatic Sprinkler	Wall Hydrants	Polished	Rough		Chrome- plated	Red Urethane	Weight (lbs)	Model
11/2	1 15/ ₁₆	3	¹⁵ / ₃₂											s*		1/8	589-1.5
21/2	2 ⁵⁹ / ₆₄	4 ¹³ / ₃₂	³ / ₁₆											s*		¹⁵ / ₁₆	589-2.5
4	49/16	10 ³ / ₁₆	1/4	•	•	•	•	•	•	•					s	1	590-4-A
4	49/16	10 ³ / ₁₆	1/4	•	•	•	•	•	•	•	0		s	0		3 ¹ / ₈	590-4-B
	6 ¹¹ / ₁₆	12	3/8	•	•	•	•	•	•	•					s	2 ¹ / ₈	590-6-A
6	611/16	12	3/8	•	•	•	•	•	•	•	0		s	0		6 ³ / ₈	590-6-B

KEY s = standard o = option *Steel material

RECTANGULAR ESCUTCHEON PLATE

MEASUREMENTS AVAILABLE LETTERING OPTIONS										MAT				
	(INICHEC)				Pump Wall				Cast Cast Polished Polished				Weight	
Length	Width	Sprinkler	Sprk/Stdp	Dry Standpipe		Sprinkler	Standpipe	Hydrant	Aluminum	Brass	Brass	Chrome	(lbs)	Model
11 ¹ / ₂	41/2						•		s				3/4	591-A
11 ¹ / ₂	41/2						•			s			2 ⁵ / ₈	591-B
11 ¹ / ₂	41/2					•			s				3/4	592-A
11 ¹ / ₂	41/2					•				s			2 ⁵ / ₈	592-B

KEY s = standard o = option





THE ELKHART STANDPIPE BAG

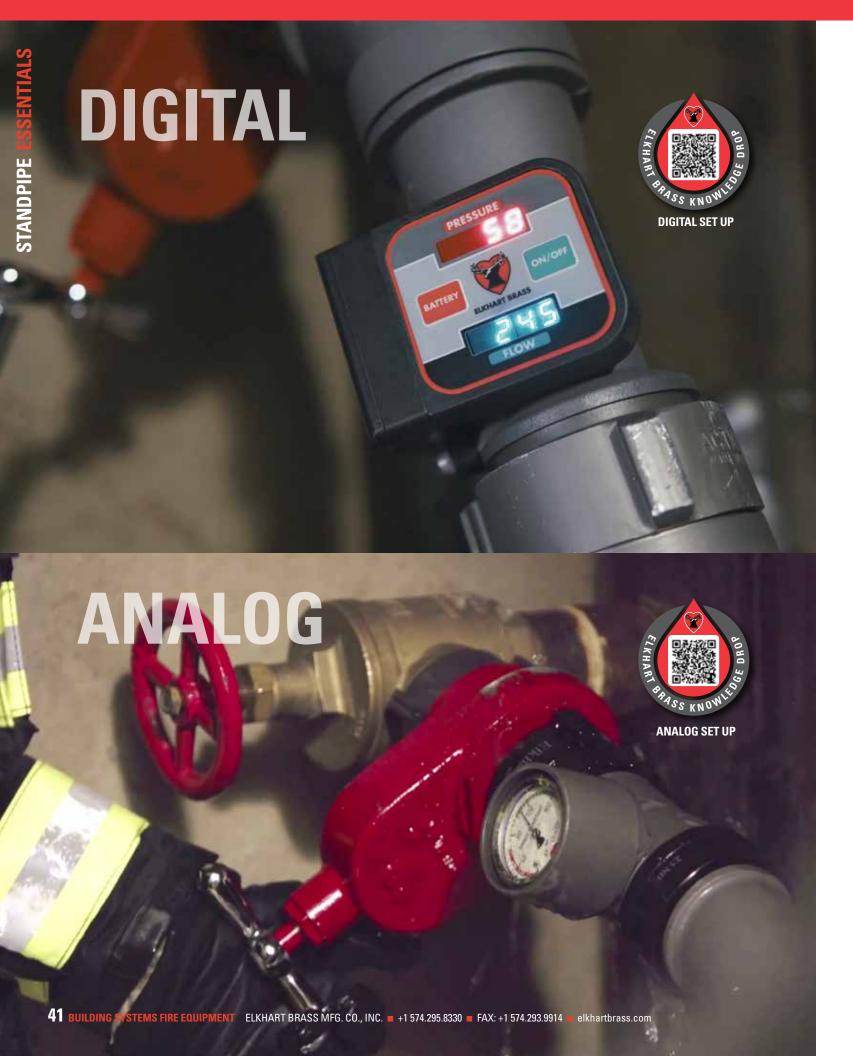
- Custom designed specifically for standpipe operations
- Features several internal and external pockets ideal for door chocks, pipe wrenches, wire brushes, adapters, etc.
- Handles made of seat belt webbing with seat belt buckle fasteners
- Bag made of durable materials

THE KIT INCLUDES:

- (1) Standpipe Bag
- 17" L x 9"W x 9" H (432 mm L x 229 mm W x 229 mm H)
- (1) 228A Pressure Gauge
- (1) 105A Elbow
- (1) X-86A Gate Valve
- (2)T-464 Spanner Wrenches







228A-2.5" Inline Pressure Gauge

- 0-200 psi (0-14 BAR) fully guarded, shock resistant air-filled gauge
- Phosphorescent gauge face assists viewing in low light conditions
- Protective gauge face cover included
- Lightweight aluminum
- Free swivel inlet allow movement
- 2.5" female swivel inlet x 2.5" male outlet



105A Drain Elbow

- 45° design reduces hose kinks
- Built in drain works in any position
- Lightweight aluminum
- Free swivel inlet allows movement
- 2.5" female swivel inlet x 2.5" male outlet

X86A Gate Valve

- Puts valve control in the hands of fire attack teams
- Gate style valve function for easy adjustment for proper flow and pressure
- Rated to 300 psi (20 BAR)
- Lightweight aluminum
- 2.5" female swivel inlet x 2.5" male outlet

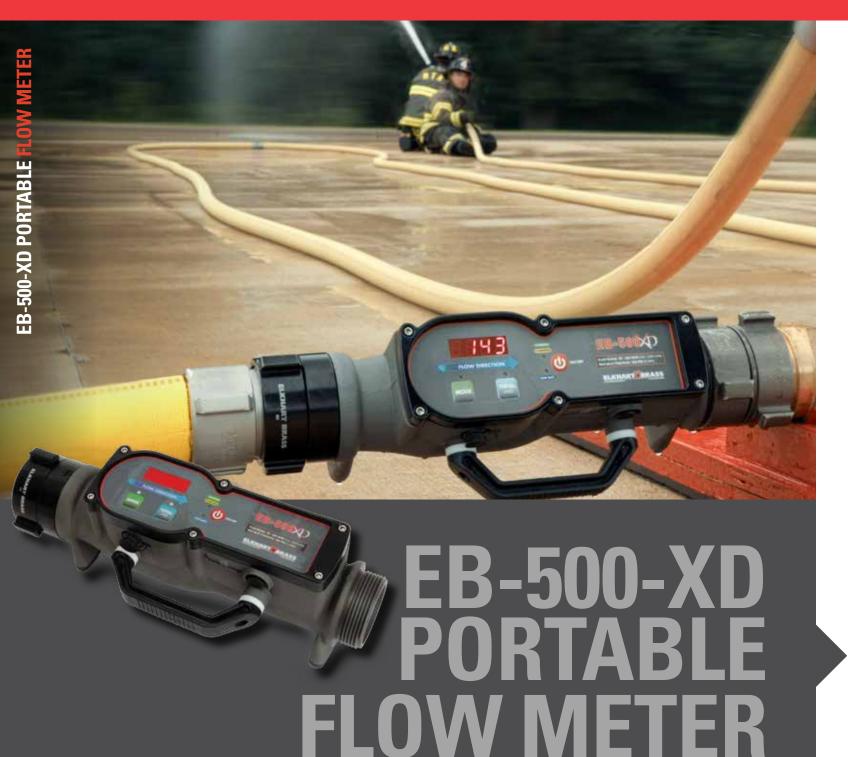
555A Standpipe Flowmeter

- Accurate digital readout of flow and pressure up to 250 gpm / 250 psi (950 LPM / 21 BAR)
- Rechargeable 9V battery powered
- 5 hours use per charge with low battery indication and standby mode
- Lightweight aluminum
- 2.5" female swivel inlet x 2.5" male outlet

111A Increaser

- 1.5" female inlet x 2.5" male outlet
- Ideal for extend operations
- Low profile knurling
- Durable lightweight aluminum





The EB-500-XD portable flow meter changes the game when it comes to accurate and effective flow testing. The flow tube, paddlewheel, digital readout, and battery are all self-contained making this unit extremely compact. The waterway features a unique internal waterway shape ensuring laminar flow for consistently accurate readings up to 500 gpm (1900 LPM). The flow pickup is a paddlewheel design which is located further into the middle of the waterway increasing reliability of the flow readings. The field programmable unit contains an internal rechargeable battery with visible status lights letting you know when the unit is low on power and when it is fully charged. The unit also features a totalizer function letting you know the total amount of water flowed. With the attached carrying handle and weighing only 8.4 lbs (3.8 kg), the EB-500-XD truly maximizes portability.

EB-500-XD PORTABLE FLOW METER

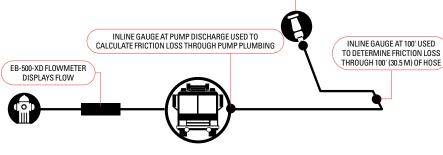
KEY FEATURES:

- Single self-contained unit as opposed to multi-component designs
- Unique internal waterway shape ensures laminar flow and accurate readings up to 500 gpm (1900 LPM)
- Large numerical digital readout
- Flow is read through a paddlewheel located deeper into the middle of the waterway for reliable readings
- Contains internal rechargeable battery with status lights with battery life up to 8 hours
- Totalizer function letting you know the total amount of water flowed
- Simple field calibration procedure when required
- NEMA 4 Waterproof Rating
- Hard case for storage





INLINE GAUGE AT NOZZLE INLET USED TO DETERMINE BASE NOZZLE PRESSURE ON A FOG NOZZLE. PITOT GAUGE USED TO DETERMINE NOZZLE PRESSURE ON A SMOOTH BORE NOZZLE



NFPA 1962 FLOW TEST KIT

The Elkhart Brass Flow Test Kit includes all essential components needed to accurately determine fire flows, friction losses, and pump discharge pressures. It is necessary equipment for conducting your NFPA 1962 flow test of nozzles, hose and appliances, as well as comprehensive hose and nozzle training.

KIT INCLUDES:

- One EB-500-XD Portable Flowmeter
- One Digital Handheld Pitot Gauge
- Three Model 228A 1.5" Line Gauges
- Three Model 228A 2.5" Line Gauges
- One Carrying Case



FLOW TESTING ESSENTIALS

Digital Handheld Pitot Gauge

- Ideal for determining nozzle pressure for smooth bore tips
- Accurately read pressure from 0-300 psi (0-20 BAR) down to the tenth psi
- Gauge features a backlit display and protective rubber boot
- Durable pitot blade
- Includes carrying case



228A-1.5" Inline Pressure Gauge

- 0-200 psi (0-14 BAR) fully guarded, shock resistant air-filled gauge
- Phosphorescent gauge face assists viewing in low light conditions
- Protective gauge face cover included
- Lightweight cast aluminum
- Free swivel inlet allow movement
- 1.5" female swivel inlet x 1.5" male outlet



228A-2.5" Inline Pressure Gauge

- 0-200 psi (0-14 BAR) fully guarded, shock resistant air-filled gauge
- Phosphorescent gauge face assists viewing in low light conditions
- Protective gauge face cover included
- Lightweight cast aluminum
- Free swivel inlet allow movement
- 2.5" female swivel inlet x 2.5" male outlet



227A-1.5" Piezometer Gauge

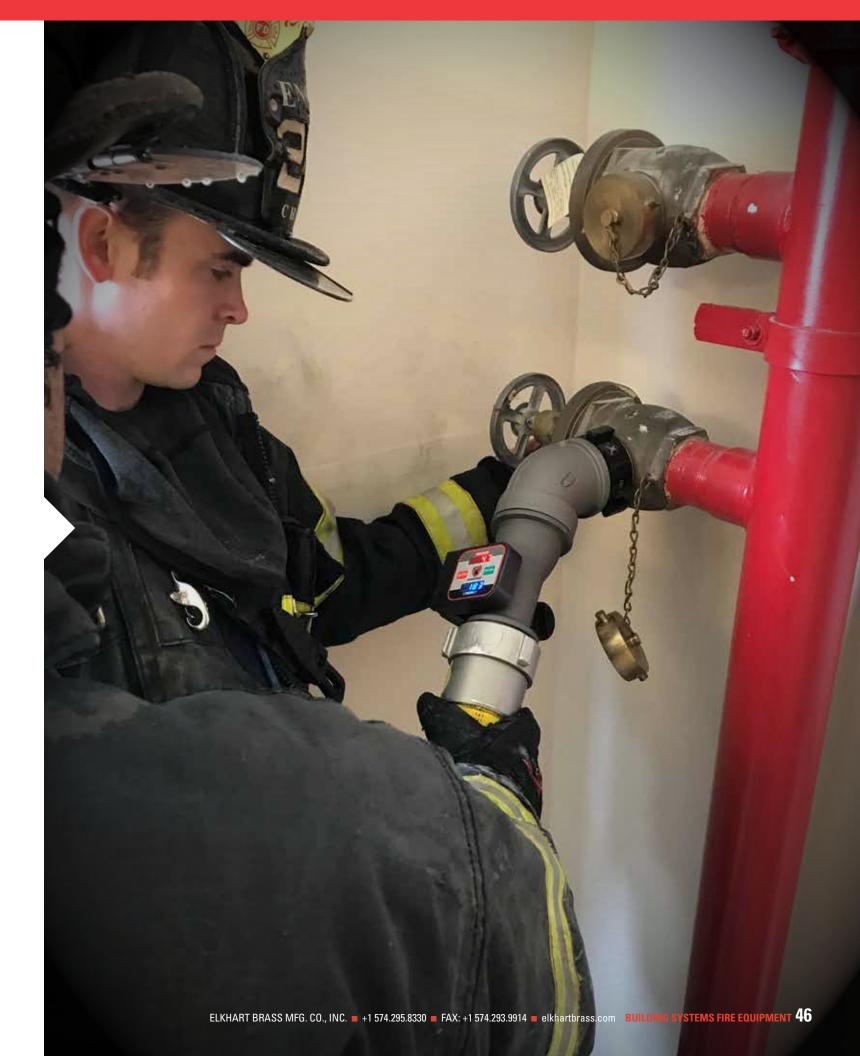
- 0-300 psi (0-20 BAR) liquid-filled gauge
- Multiple internal ports balance pressure reading
- Lightweight hard coated aluminum
- 1.5" female swivel inlet x 1.5" male outlet



227A-2.5" Piezometer Gauge

- 0-300 psi (0-20 BAR) liquid-filled gauge
- Multiple internal ports balance pressure reading
- Lightweight hard coated aluminum
- 2.5" female swivel inlet x 2.5" male outlet





MORE INFORMATION



FIELD KITS

Elkhart Brass offers field service kits for nozzles, valves and appliances.
These kits include information on repairs, parts and service. Learn more at elkhartbrass.com or contact a representative today.

TECHNICAL DATA

Available on our website in Technical Data section or by contacting Elkhart Brass direct, find multimedia and other valuable resources for reach, friction loss, flow and performance data, and much more.

MANUALS

Elkhart Brass and its products are supported through comprehensive manuals for most categories. Find downloads at elkhartbrass.com with all of the product information you should need.

SPECIFICATIONS

Downloadable, printable specifications sheets are available for most products at the Elkhart Brass website. You will find tips, sizes, materials used, certain operational instructions, and more.

URFA ADVANTAGES

Field Adjustable Pressure Reducing (URFA) is a true pressure reducing valve. A URFA valve calculator can be downloaded at this website address: http://www.elkhartbrass.com/products/industrial-valves/field-adjustable-pressure-reducing/tech.

HOW TO ORDER

Sales Managers are listed by your location on our website.
This includes The United States, Canada, Mexico, Europe, Africa, Asia, and more. They will assist with information or ordering and will also provide demos of products by request and availability.

OTHER MARKETS WESTERVE Elkhart Brass has for decade

Elkhart Brass has for decades, even over a century with some, served the firefighting equipment and fire protection markets. These include OEM vehicle builders, municipalities throughout the world, industrial customers like mining and construction segments, and building interior safety systems.









ABOUT SAFE FLEET

In 2015, Elkhart Brass was acquired by Safe Fleet. The corporation's portfolio of brands serves major markets including Emergency, Military, Industrial, Work Truck, Waste, Truck/Trailer, and Bus/Rail/RV. The combination of Elkhart Brass with FRC, FoamPro and ROM enables the company to develop integrated systems of monitors, valves, foam proportioning and electronic controls for the global emergency market. Headquartered in Belton, MO, Safe Fleet employs over 1000 employees. The Safe Fleet family of brands operates over 500,000 square feet of manufacturing space and targets markets with increasing demand for operator, passenger and pedestrian safety. For more information about Safe Fleet you can visit www.safefleet.net.











Driving Safety Forward™











TAKE ACTION elkhartbrass.com

Since 1902 Elkhart Brass has been an innovator in the fire protection and firefighting equipment industries. Today, with well over 2,000 products, the company has become a leader in the various markets served. Find out more by visiting the elkhartbrass.com website, social media channels, Knowledge Drop and other training, educational and product videos; and see more details. There are many resources available to help you find and enjoy the right product solution at Elkhart Brass.



A Safe Fleet Brand

1302 W Beardsley Ave Elkhart, IN 46514 +1 (574) 295-8330

Follow us on all of these social media channels for the latest information about Elkhart Brass products.











For official Elkhart Brass merchandise visit our store at www.elkhartbrass.shop







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+1 574-295-8330 elkhartbrass.com









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Copperhead® Stingray® Spit-Fire® Sidewinder® Hydrant Mount Manual Elevated	07 09 10 11 12
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WHO WE ARE

WE'VE BEEN AROUND

Well known for its commitment to quality, value and customer service, Elkhart Brass celebrated its 100th anniversary in 2002. In 2015, Elkhart Brass was acquired by Safe Fleet creating the leading global provider of safety solutions for fleet vehicles. The combination of Elkhart Brass with FRC, FoamPro, and ROM enables the company to develop integrated systems of monitors, valves, foam proportioning, and electronic controls for the global emergency market. Elkhart Brass still operates at its original site in Elkhart, Indiana, utilizing the in-house foundry where aluminum and brass are poured daily. In addition to manufacturing, Elkhart Brass also specializes in product research and development, engineering, and product testing thanks to 3D rapid prototyping capabilities, a dedicated flow test facility, and a complete product machine shop.

CERTIFICATIONS AND QUALITY

Elkhart Brass is committed to quality, as demonstrated by its ISO-9001 Registered Quality System. Striving for ways to streamline processes while maintaining the quality craftsmanship customers expect, the company has excelled. An on-site foundry assures accurate documentation and quality of materials. On-site testing facilities are also a benefit. Because firefighting is a dangerous occupation, the company makes a serious commitment to you by doing everything in its power to assure that when you use Elkhart Brass products, you have the highest quality and safest equipment available in the industry. As part of that commitment to quality, it continually strives to evaluate and innovate products, including upgrading certification credentials. Contact Elkhart Brass for further details or questions about a specific certification.

WARRANTY

Products are warranted in accordance with and subject to terms and conditions of Seller's standard Warranty Statement in effect on the date the applicable order is submitted. See Warranty Statement on website at www.safefleet.net/documents/ and download Elkhart Brass warranty document or use mobile phone to view here:





LEARN ABOUT INDUSTRIAL FIRE CONTROL AND FIRE SUPPRESSION

Our helpful video content will be sure to leave you better informed about our products and how they can provide a solution for your unique needs. See detailed animations of devices and fire prevention/firefighting solutions for your industrial application including mining washdown, waste-to-energy, and more in aggressive atmospheres or even corrosive environments.



PUMP DISCHARGE PRESSURE Soit (Flow) Soit (FL) Holyman Discharige FLOW (EPM) 150 HOSE DIAMETER (IN) 1-N2 F-344 2-172 HOSE LENGTH (FT) 200 MOZZLE PRESSURE (PSI) © 76 100 PDP = FL + NP = CL(Q)^2 + NP CALCULATE ENGINE PRESSURE 120.0 PSI

MOBILE APP

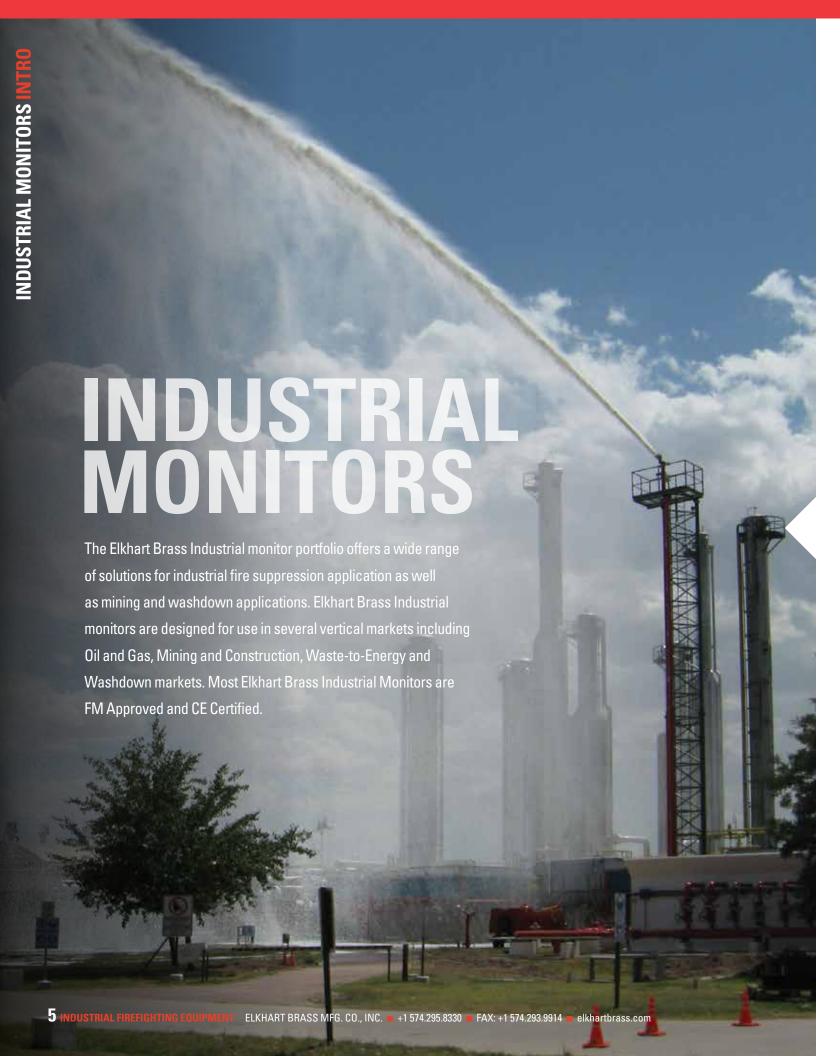
EVERYTHING NEEDED FOR FLOW TESTING NOW AT YOUR FINGERTIPS

- Smooth Bore Discharges & Flow/Pressure
- Nozzle Reaction for Smooth Bore Nozzles
- Nozzle Reaction for Fog Nozzles
- Pump Discharge Pressure for standard layouts, with ability to input hose coefficient depending on make and inside diameter
- Pump Discharge Pressure with elevation changes and appliances
- Pump Discharge Pressure for high-rise layouts
- Fire flow formula calculators for both the NFA and lowa Formulas
- Also included in the app are direct links to the Brass Tacks Hard Facts® video series











MANUAL FIXED

Built to give you years of trouble-free service, our range of manual fixed monitors is sure to have you covered for all of your fixed fire protection needs.

- Tiller bar or handwheel control options
- Built of brass construction for years of reliable service in the harshest environments
- Wide variety of flow rates
- COPPERHEAD®
 SPIT-FIRE®
- STINGRAY®
- SIDEWINDER®



MANUAL FIXED WITH BUILT-IN VALVE

These monitors add a built-in valve to some of our most popular manual fixed monitors for quick acting waterflow applications and simplifying site installation.

- Built-in ball valve for fast acting operation
- Tiller bar or handwheel control options
- Built of brass construction for years of reliable service in the harshest environments
- COPPERHEAD IV
- STINGRAY IV



HYDRANT MOUNTED

Utilizing a fire hydrant as their water source, easy-to-install hydrant mounted monitors offer an effective solution to fixed fire protection.

- Mounts directly to hydrant outlet
- Single handwheel control
- Built of brass construction for years of reliable service in the harshest environments
- STINGRAY

MANUAL ELEVATED

Manual elevated monitors offer a solution when elevated fire streams are necessary for adequate fire protection. Available in a variety of heights, they are necessary for adequate fire protection rising to any challenge.

- Allows for an elevated stream for specific applications
- Various height options
- Brass and stainless steel construction for years of reliable service in the harshest environments
- SPIT-FIRE
- PYTHON



COPPERHEAD®



MODELS:

8593-02 (TILLER BAR CONTROL)

8593-03 (DUAL HANDWHEEL CONTROL)

8593-IV (TILLER BAR CONTROL WITH BUILT-IN VALVE)

Copperhead® manual monitors are rugged maintenance-free monitors designed for corrosive and non-corrosive environment applications. Each configuration of the Copperhead monitor has extremely low friction loss and, in conjunction with advanced Elkhart Brass nozzle technology, ensures optimal flow efficiency and stream reach.

Copperhead monitors are FM Approved to the current edition of FM 1421 standard.

KEY FEATURES:

- 1250 gpm (4750 LPM) maximum flow rate
- 200 psi (14 BAR) maximum operating pressure
- -45° to +90° (135°) vertical travel range
- 360° continuous horizontal travel range
- Full 3" unobstructed waterway with cast-in vanes to ensure superior stream quality
- Positive brass T-handle locks furnished for both vertical and horizontal movements
- Tiller bar and dual handwheel manual control options
- FM Approved for use with Elkhart Brass WPO-2000[™] enables automation of the horizontal oscillation without the need of electric control unit
- Rugged brass construction for use in corrosive environments and seawater applications



8593-IV (TILLER BAR WITH BUILT-IN VALVE)



Recommended Nozzles & Accessories









181 – DELUGE TIP



282-B – STREAM SHAPER



CSW-LB

STINGRAY®

MODEL:

8393 8393-IV with built-in ball valve

The Elkhart Brass Stingray® manual monitor low profile design enables use in space constraint applications. The Stingray monitor is FM Approved to

the current edition of the FM1421 standard and suitable for corrosive and non-corrosive environment applications.



KEY FEATURES:

- 1250 gpm (4750 LPM) maximum flow rate
- 200 psi (14 BAR) maximum operating
- -60° to +90° (150°) vertical travel range
- 360° continuous horizontal travel range
- Full 3" unobstructed waterway
- Handwheel control for vertical discharge travel range
- Available with built-in ball valve, Model 8393-IV
- Rugged brass construction for use in corrosive environments and seawater applications





8393-IV WITH BUILT-IN BALL VALVE

Recommended Nozzles & Accessories







IMS-1000











282-B STREAM SHAPER

SPIT-FIRE®



MODEL: 8394-02 HANDWHEEL OPTION

The Elkhart Brass manual Spit-Fire® monitors are designed to provide up to 360° horizontal rotation with dual handwheel or tiller bar control mechanism options. The Spit-Fire manual monitor is FM Approved to the current edition of FM1421 standard and suitable for corrosive and noncorrosive environment applications.

KEY FEATURES:

- 2000 gpm (7550 LPM) maximum
- 200 psi (14 BAR) maximum operating pressure
- -45° to +90° (135°) vertical travel
- 360° continuous horizontal travel
- 4" waterway with cast-in vane to optimize stream reach and performance
- Easy to operate tiller bar or dual handwheel control options
- FM Approved for use with Elkhart Brass WPO-2000™ enables automation of the horizontal oscillation without the need of electric control unit
- Rugged brass construction for use in corrosive environments and seawater applications





8394-121 TILLER BAR

Recommended Nozzles & Accessories



SM-2000B



CJ-K









284-B STREAM SHAPER 181-3 DELUGE TIP

SM-1250B

STINGRAY

ELKHART BRASS MFG. CO., INC. ■ +1 574.295.8330 ■ FAX: +1 574.293.9914 ■ elkhartbrass.com INDUSTRIAL FIREFIGHTING EQUIPMENT 10

SIDEWINDER®

MODEL: 8392

Designed for lower flow needs and compact applications in harsh environments, the Sidewinder® has a 2" fully-vaned waterway for exceptional stream performance. It has an extremely low and compact profile ideal for anywhere space is at a premium. Fast action tiller bar control and horizontal and vertical locks allow the operator to put the stream where it needs to go.

KEY FEATURES:

- Rated for 500 gpm (1900 LPM)
- 200 psi (14 BAR) maximum operating pressure
- 1.5" male outlet
- 2" female NPT inlet
- Rugged brass construction for use in corrosive environments and seawater applications
- Red urethane finish

TRAVEL RANGE:

- Vertical -45° to +90° (135°)
- Horizontal continuous (360°)

Recommended Nozzles & Accessories





L-205-B



HYDRANT MOUNT

MODEL: 8393-H

The Elkhart Brass Hydrant mount manual monitor design enables installation of the monitor on fire hydrants. The hydrant mount monitors are FM Approved to the current edition of the FM1421 standard and suitable for corrosive and non-corrosive environment applications.

KEY FEATURES:

- Model 8393 H: 1250 gpm (4750 LPM) maximum flow rate
- 200 psi (14 BAR) maximum operating pressure
- -70° to +80° (160°) vertical travel range
- 360° continuous horizontal travel range
- Full 3" unobstructed waterway
- Handwheel control for vertical discharge travel range
- Rugged brass construction for use in corrosive environments and seawater applications



Recommended Nozzles & Accessories













282-B STREAM SHAPER

MANUAL ELEVATED

Elkhart Brass manual elevated monitors are designed to enable control of fire streams from ground level when elevated streams are necessary for adequate fire protection. They are available in freestanding or supported models with customer supplied risers.



299-11EL Elevated Monitor

The Elkhart Brass 299-11EL Elevated monitor is a completely free standing and available in standard heights from 10 feet to 40 feet.

KEY FEATURES:

- Brass and stainless steel construction
- 750 gpm (2900 LPM) maximum flow rate
- 200 psi (14 BAR) optimal pressure
- -37° to +45° (78°) vertical travel range
- 360° Continuous horizontal travel range
- Tiller with locks control
- Available in standard heights from 10 feet to 40 feet
- Red urethane enamel finish



8394-02RC Elevated Monitor

The Elkhart Brass 8394-02RC Elevated Monitor offers an elevated monitor solution for installation on a customer supplied intermediate riser pipe. A Model 295 support bearing is to be used every 10 feet.

KEY FEATURES:

- Brass and stainless steel construction
- Up to 1000 gpm (3800 LPM) maximum flow rate
- 200 psi (14 BAR) maximum operating
- -45° to +90° (135°) vertical travel range
- 360° Continuous horizontal travel
- Dual handwheel control
- Red urethane enamel finish





DELUGE TIP

295 Support Bearing

Optional Products

- Designed so that 4" waterway and vertical control rod can rotate inside of bearing. 3" NPT female for attaching to adjacent support
- Red urethane enamel finish

90° Intake Base

- Used with 299-11EL and 8394-02RC monitors
- 6"-150# and 6"-300# flange inlet
- 4"-150#, 6"-150#, and 6"-300# flange outlet
- Full 4" waterway

PORTABLE CARTS

The Elkhart Brass portable wheel cart comes furnished with flow-efficient, built-in 4" manifold. Two and four wheel options are offered with pneumatic tires and wheel locks.

KEY FEATURES:

- Brass and stainless steel construction
- Up to 1000 gpm (3800 LPM) maximum flow rate
- 200 psi (14 BAR) maximum operating pressure
- +70° to +20° (50°) vertical travel range
- Single 4" or 5" stortz and double 2.5" NHT inlet options



Recommended Products





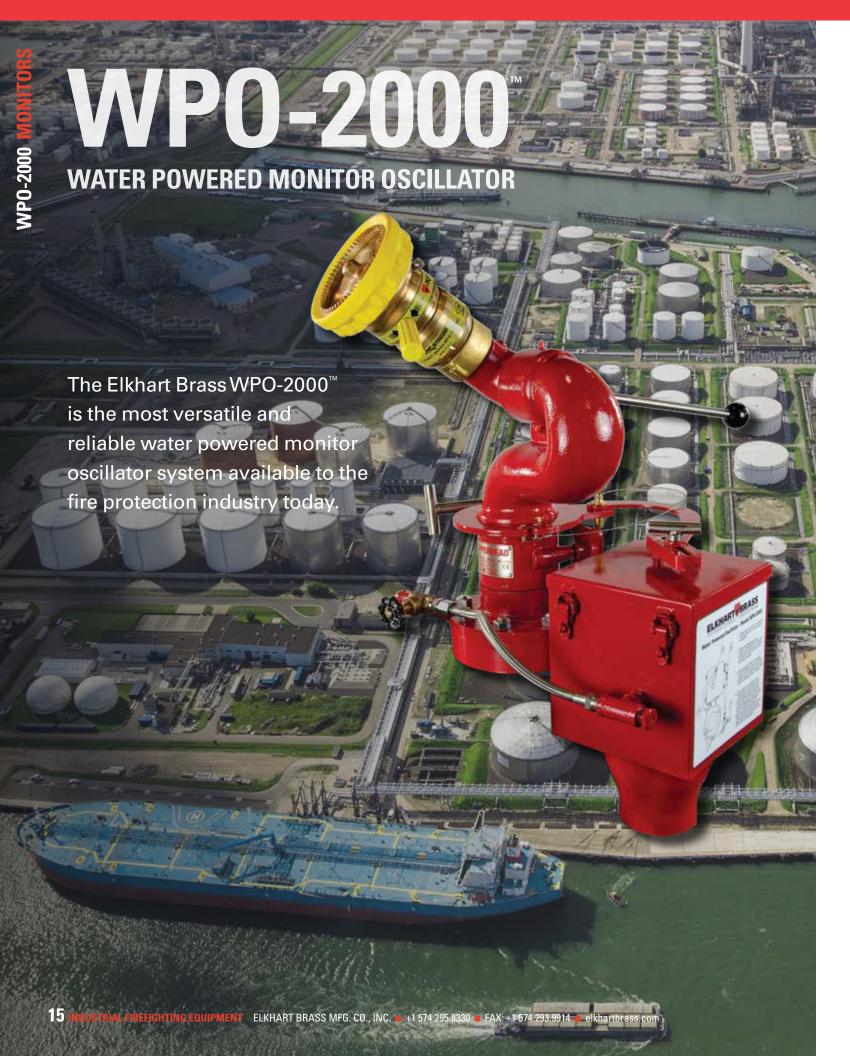






- Carbon steel construction

- Red epoxy finish





The FM Approved, low profile WPO-2000™ is designed to provide up to 30°/sec oscillation speed when installed between a monitor and a valve or manifold/hydrant outlet. Dependability

and ease of installation and operation are hallmarks of Elkhart Brass monitors. The WPO-2000, combined with an Elkhart Brass monitor, provides high quality, system reliability and the flexibility required by modern land-based and water-based industrial fire protection applications. This combination offers the industry the most cost effective and reliable fixed monitor solution in its class.



WPO-2000 KEY FEATURES:

- Modular oscillator design enables compatibility with the Elkhart Brass Copperhead® and Spit-Fire® monitors, along with other manufacturer models
- 316 stainless steel and 85 brass construction provides outstanding corrosion resistance for use in corrosive environments
- Easily accessible external controls enable speed and travel range adjustment while system is in operation
- Double reduction oil bath gearbox ensures reliability and extends the life for heavy use
- Manual override feature allows manual control at any time
- 15° to 120° arc of oscillation range provides wide coverage area
- 200 psi (14 BAR) maximum operating pressure
- Product flexibility allows support to most monitors with up to 2000 gpm (7570 LPM) flow rates
- Compact size enables ease of installation



WPO-2000 APPLICATIONS:

- Oil Refineries

Processing Plant

Oil Rigs

Docks

Coal Storage

Petrochemical

Tank Farms

- Heliports
- Lumber Mills

- Processing Plants
- Railroad Yards

Fueling Areas

- Chemical
- Paper Mills





Built to perform, the X-Stream® Series automatic nozzles are designed to self-adjust based on variable or reduced pressure and flow to maintain an effective stream with maximum reach. Manual models feature large handles for easy stream pattern adjustment. Electric versions include sealed connectors and motors along with a manual override. They have several global certifications and approvals including FM, ATEX, and IECEx. Special models are designed for use in hazardous locations and for gas mitigation applications.

KEY FEATURES:

- Flow rates: 350 2000 gpm (1330 7550 LPM)
- Calibrated to operate at lower inlet pressures of 70 - 80 psi (4.8 - 5.5 BAR)
- Adjustable patterns from straight stream to narrow fog (30°) and wide fog (90°)
- Precision cut metal teeth for exceptional fog pattern
- Brass construction for corrosive and non-corrosive environment applications with some models even having an electroless nickel-plated coating for extra protection
- Some models are made of hardcoated aluminum with hard anodized finish

SM-1250B

- Flow range of 350-1250 gpm @ 75 psi (1330-4750 LPM @ 5 BAR)
- Large handles for manual stream pattern adjustment
- 2.5" or 3.5" inlet
- FM Approved



SM-1250BE

- Flow range of 350-1250 gpm @ 75 psi (1330-4750 LPM @ 5 BAR)
- Stream pattern remotely controlled via robust electronic motor design
- 2.5" inlet or 3.5" inlet



SM-1250HB

- Flow range of 350-1250 gpm @ 75 psi (1330-4750 LPM @ 5 BAR)
- Stream pattern remotely controlled via robust hydraulic actuator
- 2.5" inlet or 3.5" inlet



SM-2000B

- Flow range of 500-2000 gpm @ 80 psi (1900-7550 LPM @ 5.5 BAR)
- Large handles for manual stream pattern adjustment
- 3.5" inlet
- FM Approved



SM-2000BE

- Flow range of 500-2000 gpm @ 80 psi (1900-7550 LPM @ 5.5 BAR)
- Stream pattern remotely controlled via robust electronic motor design
- 3.5" inlet



SM-2000HB

- Flow range of 500-2000 gpm @ 80 psi (1900-7550 LPM @ 5.5 BAR)
- Stream pattern remotely controlled via robust hydraulic actuator
- 3.5" inlet



X-STREAM®

AUTOMATIC MASTER STREAM

Approved for Hazardous Location Use

FM Approved for Class I Div 2 hazardous location rated

OR

- ATEX certified for Zone 1, ATEX Zone 2, ATEX Zone 21, ATEX Zone 22
- IECEx certified Zone 1, IECEx Zone 2, IECEx Zone 21, IECEx Zone 22

SM-1250BE-HL

- Flow range of 350-1250 gpm @ 75 psi (1330-4750 LPM @ 5 BAR)
- Stream pattern remotely controlled via robust electronic motor design
- 3.5" inlet



SM-2000BE-HL

- Flow range of 500-2000 gpm @ 80 psi (1900-7550 LPM @ 5.5 BAR)
- Stream pattern remotely controlled via robust electronic motor design
- 3.5" inlet



Gas Mitigation Master Stream Nozzles:

Designed for with an wide 120° fog pattern for gas mitigation applications

SM-1250BE-HLGM

- Flow range of 350-1250 gpm @ 75 psi (1330-4750 LPM @ 5 BAR)
- Stream pattern remotely controlled via robust electronic motor design
- 3.5" inlet



SM-2000BE-HLGM

- Flow range of 500-2000 gpm @ 80 psi (1900-7550 LPM @ 5.5 BAR)
- Stream pattern remotely controlled via robust electronic motor design
- 3.5" inlet



SELECT-O-STREAM®

MASTER STREAM

The Elkhart Brass Select-O-Stream® nozzles are constant flow with a fully machined waterway that ensures excellent stream quality. The Select-O-Stream nozzles are FM Approved.

KEY FEATURES:

- Brass construction for corrosive and non-corrosive environment applications
- Pattern easily changed under flowing conditions from straight stream to 90° fog
- Grease zerk fitting for easy lubrication of tip threads
- Satin and cast brass finish
- No-twist shutoff

CJ-B

- Flow Rates: 350 gpm @ 100 psi (1330 LPM @ 7 BAR) 500 gpm @ 100 psi (1900 LPM @ 7 BAR)
- 2.5" inlet
- FM Approved

Aluminum version available: Model CJ

SELECT-O-STREAM MASTER STREAM

CJN-B

- Flow Rates: 750 gpm @ 100 psi (2900 LPM @ 7 BAR) 1000 gpm @ 100 psi (3800 LPM @ 7 BAR)
- 2.5" inlet
- FM Approved

Aluminum version available: Model CJN

CJ-B-RC

- Flow Rates: 350 gpm @ 100 psi (1330 LPM @ 7 BAR) 500 gpm @ 100 psi (1900 LPM @ 7 BAR)
- Stream adjustment via cables for use with manual elevated monitors
- 2.5" inlet
- FM Approved

CJN-B-RC

- Flow Rates: 750 gpm @ 100 psi (2900 LPM @ 7 BAR) 1000 gpm @ 100 psi (3800 LPM @ 7 BAR)
- Stream adjustment via cables for use with manual elevated monitors
- 2.5" inlet
- FM Approved







SELECT-O-FLOW®

MASTER STREAM

Elkhart Brass Select-O-Flow® Master Stream nozzles are selectable flow constant flow type nozzles.

The Select-O-Flow nozzles design enables flow rate change while nozzle is operating under flow condition.

KEY FEATURES:

- Brass construction for corrosive and non-corrosive environment applications
- Pattern easily changed under flowing conditions from straight stream to 90° fog
- Satin and cast brass finish



IMS-350

- Flow Rate: 350 gpm @ 100 psi (1330 LPM @ 7 BAR)
- Wide 140° fog pattern
- 2.5" inlet

IMS-500

- Flow Rate: 500 gpm @ 100 psi (1900 LPM @ 7 BAR)
- Wide 140° fog pattern
- 2.5" inlet
- FM Approved

IMS-750

- Flow Rate: 750 gpm @ 100 psi (2900 LPM @ 7 BAR)
- 2.5" inlet
- FM Approved

IMS-1000

- Flow Rate: 1000 gpm @ 100 psi (3800 LPM @ 7 BAR)
- 2.5" inlet
- FM Approved





CSW-LB

- Flow Rate: 350/500/750/1000/1250 gpm @ 100 psi (1300/1900/2900/3800/4750 LPM @ 7 BAR)
- 2.5" inlet



Aluminum Versions Available:

CSW-L

- Flow Rate: 350/500/750/1000/1250 gpm @ 100 psi (1300/1900/2900/3800/4750 LPM @ 7 BAR)
- 2.5" inlet

CSW

- Flow Rate: 350/500/750 gpm @ 100 psi (1300/1900/2900 LPM @ 7 BAR)
- 2.5" inlet



MYSTERY®

MASTER STREAM

The Elkhart Brass Mystery® nozzle design has a twist shutoff feature with models flowing up to 2000 gpm (7550 LPM) maximum flow rates.

KEY FEATURES:

- Brass construction for corrosive and non-corrosive environment applications
- Pattern easily changed under flowing conditions from straight stream to 90° fog
- Grease zerk fitting for easy lubrication of tip threads
- Satin and cast brass finish
- Twist shutoff included



FIXED SYSTEM NOZZLES

MASTER STREAM

Designed for use in fixed system applications. Adjustable nozzles can be pre-set at the factory or set in the field at time of installation. The fog pattern, which can be set up to 120°, can also easily be set or adjusted on site.



FIXED SYSTEM NOZZLES

- Flow Rates: 350 gpm @ 100 psi (1330 LPM @ 7 BAR) 500 gpm @ 100 psi (1900 LPM @ 7 BAR)
- 2.5" inlet

- Flow Rate: 1000 gpm @ 100 psi (3800 LPM @ 7 BAR)
- 2.5" inlet

- Flow Rates: 1250 gpm @ 100 psi (4750 LPM @ 7 BAR) 1500 gpm @ 100 psi (5700 LPM @ 7 BAR)
 - 1750 gpm @ 100 psi (6650 LPM @ 7 BAR)
 - 2000 gpm @ 100 psi (standard) (7550 LPM @ 7 BAR)
- 3.5" inlet





NTS-C

- Adjustable flow rate from 5-40 gpm (20-150 LPM)
- Adjustable fog pattern up to 120°
- 0.75" male NPT inlet standard, female optional
- Rugged brass construction and finish

NTL-C

- Adjustable flow rate from 40-100 gpm (150-380 LPM)
- Adjustable fog pattern up to 120°
- 1.0" male NPT inlet standard, female optional
- Rugged brass construction and finish

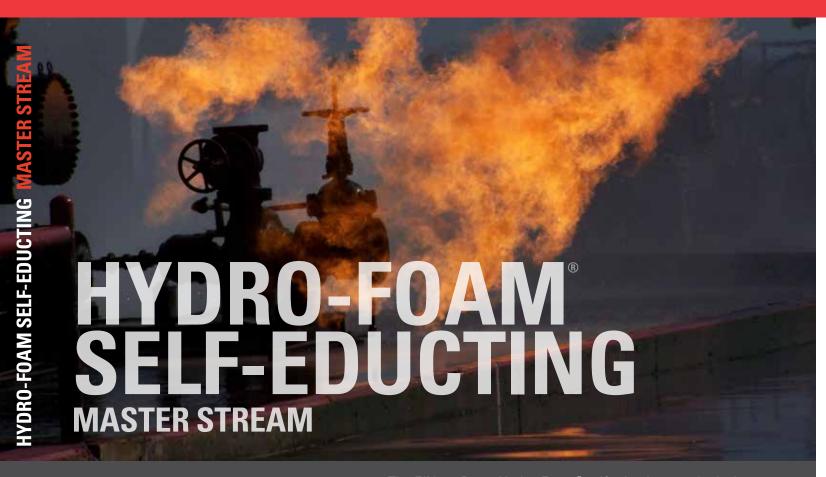
NT-C

- Adjustable flow rate from 100-250 gpm (380-950 LPM)
- Adjustable fog pattern up to 120°
- 1.5" male NPT inlet standard, female optional
- Rugged brass construction and finish











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

KEY FEATURES:

- Brass construction for corrosive and non-corrosive environment applications
- Pattern easily changed under flowing conditions from straight stream to 90° fog
- Built-in metering device accurately proportions foam at the selected rate
- Suitable for Class A and Class B foams including AFFF and fluoroprotein foam concentrates

HF-350 / HF-500

- Rated for 350 gpm (1330 LPM) or 500 gpm @ 100 psi (1900 LPM @ 7 BAR)
- Clear vinyl 9' (2.7 m) pick up hose included
- Pick up rates: ½%, 1%, 3%, 6% (HF-350) ½%, 1%, 3% (HF-500)
- 2.5" female swivel inlet
- Satin brass or chrome plated finish (Aluminum version available)
- UL Listed



SELF-EDUCTING NOZZLE ACCESSORIES

HF-350 and HF-500 Quick Connect Coupling

- This brass quick-connect coupling provides an easy way of attaching/detaching pick-up hose
- Satin brass or chrome plated finish



Shut-Off Valve

- Quarter-turn ball valve for positive shut-off of foam supply
- Attaches to foam inlet of nozzle
- Satin brass or chrome plated finish

Metering Valve

- Quarter-turn ball valve for instant proportioning change
- Specify
 - 1% / 3% configuration
 - 3% / 6% configuration (HF-350 only)
- Satin brass or chrome plated finish

Drum Pick Up Kit #1

- Designed for use with HF-350 and HF-500
- Allows foam inlet of the nozzle to be pre-connected to a drum or tote of
- Includes PVC pick up tub with shut-off valve, brass vacuum breaker, and clear reinforced vinyl 8' (2.4 m) pick up hose



HF13-750 / HF13-1000

- Rated for 750 gpm (2900 LPM) or 1000 gpm @ 100 psi (3800 LPM @ 7 BAR)
- Clear vinyl 9' (2.7 m) pick up hose included
- Pick up rates: 1% and 3%
- 2.5" female swivel inlet
- Cast and satin brass finish
- Proportioning disc or metering valve options for regulating foam

Drum Pick Up Kit #2

- Designed for use with HF13-750 / HF13-1000
- Allows foam inlet of the nozzle to be pre-connected to a drum or tote of concentrate
- Includes PVC pick up tub with shut-off valve, brass vacuum breaker, and clear reinforced vinyl 8' (2.4 m) pick up hose



FOAM EXPANSION TUBES

XTREME HYDRO-FOAM® NOZZLES

KEY FEATURES:

- Automatic flow nozzle design maximizes reach based on available water supply across a range of flows
- Lightweight aluminum construction
- Pattern easily changed under flowing conditions from straight stream to 90° fog
- Hard coated aluminum finish

SM-1000-HF

- Rated for 350-1000 gpm @ 100 psi (1130-1900 LPM @ 7 BAR)
- Pick up rates: 1% and 3%
- Clear vinyl 9' (2.7 m) pick up hose included
- 2.5" female swivel inlet

SM-2000-HF

- Rated for 750-2000 gpm @ 100 psi (2900-7550 LPM @ 7 BAR)
- Pick up rate: 1%
- Clear vinyl 9' (2.7 m) pick up hose included
- 3.5" female swivel inlet

SM-2000E-HF

- Rated for 750-2000 gpm @ 100 psi (2900-7550 LPM @ 7 BAR)
- Pick up rate: 1%
- Stream pattern remotely controlled via robust electronic motor design
- Clear vinyl 9' (2.7 m) pick up hose included
- 3.5" female swivel inlet

Drum Pick Up Kit #3

- Designed for use with SM-1000-HF / SM-1000E-HF
- Allows foam inlet of the nozzle to be pre-connected to a drum or tote of concentrate
- Includes PVC pick up tube with shut-off valve only. Replaces non-valve pick-up tube that comes with nozzle

Drum Pick Up Kit #4

- Designed for use with SM-2000-HF / SM-2000E-HF
- Allows foam inlet of the nozzle to be pre-connected to a drum or tote of concentrate
- Includes PVC pick up tube with shut-off valve only. Replaces non-valve pick-up tube that comes with nozzle



X STREAM

FOAM EXPANSION TUBES

Lightweight composite foam tubes are corrosion-resistant and easy to handle with bases that snap securely onto the nozzle in seconds. The foam tubes are specifically designed to require no alteration of the nozzle itself for use. The base of the tube includes large air intakes – expansion rates are easily varied with nozzle pattern.

Model 251-6

Compatible with the following Master Stream nozzles:

- IMS-350/500
- HF-350/500
- CJ-B series

Length: 14.75", Tube Base: Composite



Model 252-8

Compatible with the following Master Stream nozzles:

SM-1250B Series

Length: 16.69", Tube Base: Metal



Model 253-9

Compatible with the following Master Stream Nozzles:

- SM-2000B Series
- SM-1000HF Series
- SM-2000HF Series

Length: 16.14", Tube Base: Metal



Model 257-6

Compatible with the following Master Stream Nozzles:

HF13 Series

Length: 14.9", Tube Base: Metal



SMOOTH BORE TIPS

MASTER STREAM

Designed for maximum reach and penetration when combined with an Elkhart Brass monitor, they are available in a variety of discharge sizes to suit any application.

185-B

- Available discharge sizes:
- 1/2", 5/8", 3/4", 7/8", 15/16", 1", 1-1/8", 1-3/16", 1-1/4"
- Brass construction with satin brass or chrome-plated finish
- 1.5" female inlet



181 Deluge Tip

- Available discharge sizes:
- 1", 1-1/8", 1-1/4", 1-3/8", 1-1/2", 1-5/8", 1-3/4", 1-7/8", 2", 2-1/4"
- Brass construction with satin brass or chrome-plated finish
- 2.5" female inlet



181-3 Deluge Tip

- Available discharge sizes:
- 2", 2-1/4", 2-1/2", 3"
- Brass construction with satin brass or chrome-plated finish
- 3.5" female inlet



ST-191 Triple Stacked Tip

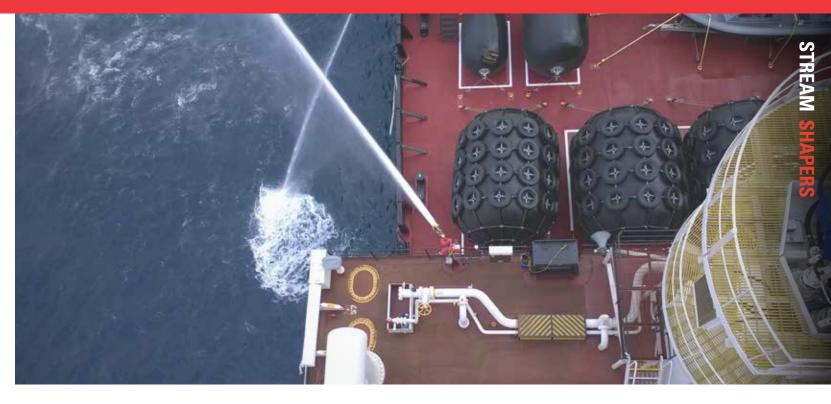
- Discharges sizes of 1-1/2" / 1-3/4" / 2"
- Brass construction with satin brass or chrome-plated finish
- 2.5" female inlet



ST-191-1 Triple Stacked Tip

- Discharges sizes of 1-3/8" / 1-1/2" / 1-3/4"
- Brass construction with satin brass or chrome-plated finish
- 2.5" female inlet





STREAM SHAPERS

Used to remove turbulence from waterflow and increase stream performance, Elkhart Brass has stream shapers available in a variety of sizes and materials to suit all applications.

282-B Stream Shaper

- Compact design
- Internal vanes help reduce turbulence improving stream reach and quality
- Brass construction with satin brass, chrome-plated, or electroless nickel plated finish
- 2.5" female inlet x 2.5" male outlet



283-B Stream Shaper

- Compact design
- Internal vanes help reduce turbulence improving stream reach and quality
- Brass construction with satin brass or chrome-plated finish
- 3.5" female inlet x 2.5" male outlet



284-B Stream Shaper

- Compact design
- Internal vanes help reduce turbulence improving stream reach and quality
- Brass construction with satin brass or chrome-plated finish
- 3.5" female inlet x 3.5" male outlet









Spit-Fire® Monitor

RELIABLE FIRE PROTECTION SOLUTIONS FOR INDUSTRIAL LOCATIONS

The GEN-II ERCM system is designed to provide a reliable industrial fire protection solution for Class I or Division 2 classified locations. The electric monitor and nozzle are FM Approved and the control panel is UL Listed.



MCP Main Control Panel



Optional OCP Operator Control Panel



Optional MOV Motor Operated Valve



/ Portable Radio /alve Frequency (RF) Contr

ERCM KEY FEATURES:

- Up to 2000 gpm (7570 LPM) flow rate
- Up to 300 feet (91 m) stream reach
- 85 brass construction with a lower level of zinc for outstanding resistance to corrosion
- Straight/jet stream to 30° narrow fog and 90° wide fog nozzle flow patterns
- Optional 120° wide fog nozzle for gas mitigation applications
- AC synchronous motors provide continuous oscillation capability without overloading, overheating, or blowing fuses
- Double-race, brass bearings on vertical and horizontal swivels ensures monitor reliability and durability
- Manual override enables manual control at any time even in the event of a power failure
- Communication with facility fire detection and alarm system enables system activation via fire alarm input
- Group response enables grouping and activation of group(s) of monitors

- Input from fire detection system or a panic push button
- Optional touch screen remote control console for operation from control room up to 1.2 miles (2 km) away from hazard
- Optional portable Radio Frequency (RF) control with up to 1000 feet (305 m) range
- Networkable
- Up to 24 monitors per RF transmitter
- Up to 128 monitors per system with HMI via ethernet IP
- Cat 5e copper or fiber (multimode or single mode) networking
- Up to 1.2 miles (2 km) distance between devices with multi-mode or 12.4 miles (20 km) with single mode fiber optic connection. Available with network control panel only
- Complies with NFPA 70

ERCM APPLICATIONS:

- Oil Refineries
- Oil Rigs
- Tank Farms
- Offshore Platforms
- Fueling Areas

- Fuel Docks
- Chemical Processing
- Waste Management
- Helipads
- Airplane Hanger
- Railroad Yards
- Coal Storage
- Lumber Mills
- Paper Mills
- Many More



ERCM GEN-II COMPONENTS

8394-053 Spit-Fire® Monitor

Industrial Electric Remote Controlled Monitor; 120VAC (60 Hz) Synchronous motors; 2,000 gpm (7,570 LPM) max flow rate; 200psi (14 BAR) maximum operating; -45° to +90° (135°) max vertical travel; 347° max horizontal travel; 4.0" 150# ANSI flange inlet; 3.5" NHT male outlet; 85 brass with red urethane enamel; suitable Class I Division 2 classified location application, FM Approved, NFPA 70 (NEC) compliant, NEMA 4X (IP66) junction box.



Main Control Panel (MCP)

Main Monitor Control Panel; Suitable for Class I Division 2 classified location; Factory configured for 3.2A@240VAC 60 Hz input power; factory configurable for 50 hz; field configurable for 120VAC or 480VAC; networkable; /Alarm Input / Group Response over ethernet network; 304 Stainless Steel NEMA 4x enclosure; UL Listed, complies with NFPA 70 (NEC).

- Optional 304 and 316 Stainless Steel NEMA 4x Enclosure or painted carbon steel NEMA 4 Enclosure
- Optional gland plate
- Optional multi-mode fiber optic network module
- Optional auxiliary device controls

Networked Operator Control Panel (OCP)

Optional Operator Control Panel (OCP); Suitable for Class I Division II classified location; 6.3A/3.2A @ 120/240VAC 50/60 Hz; networkable; Alarm Input / Group Response over ethernet network; 304 Stainless Steel NEMA 4x enclosure; UL Listed, complies with NFPA 70 (NEC).

- Optional Hazardous Location rated (Class I Division 2)
- Optional 304 and 316 Stainless Steel NEMA 4x Enclosure or painted carbon steel NEMA 4 Enclosure
- Optional gland plate
- Optional multi-mode fiber optic network module
- Optional auxiliary device controls





Hardwired Operator Control Panel

Optional Operator Control Panel (OCP); Power derived from MMCP; 304 Stainless Steel NEMA 4x Enclosure; UL Listed, complies with NFPA 70 (NEC).

- Optional Hazardous Location rated (Class I Division 2)
- Optional 316 Stainless Steel NEMA 4x Enclosure or painted carbon steel **NEMA 4 Enclosure**
- Optional gland plate
- Optional auxiliary device controls



ERCM GEN-II INDUSTRIAL SYSTEMS

GEN-II XT Extreme Temperature Panels available with higher temperature range

Optional RF Control

Optional RF control enables portable Radio Frequency (RF) control; 1000 feet (305 m) RF control range; networkable with up to 24 monitors per network system.

Custom control buttons and switches are available



Optional Touch Screen Remote Control Console

Optional remote control console; 100-120VAC @ 2.1A input power; painted carbon steel; touch screen; supports up to 128 monitors.

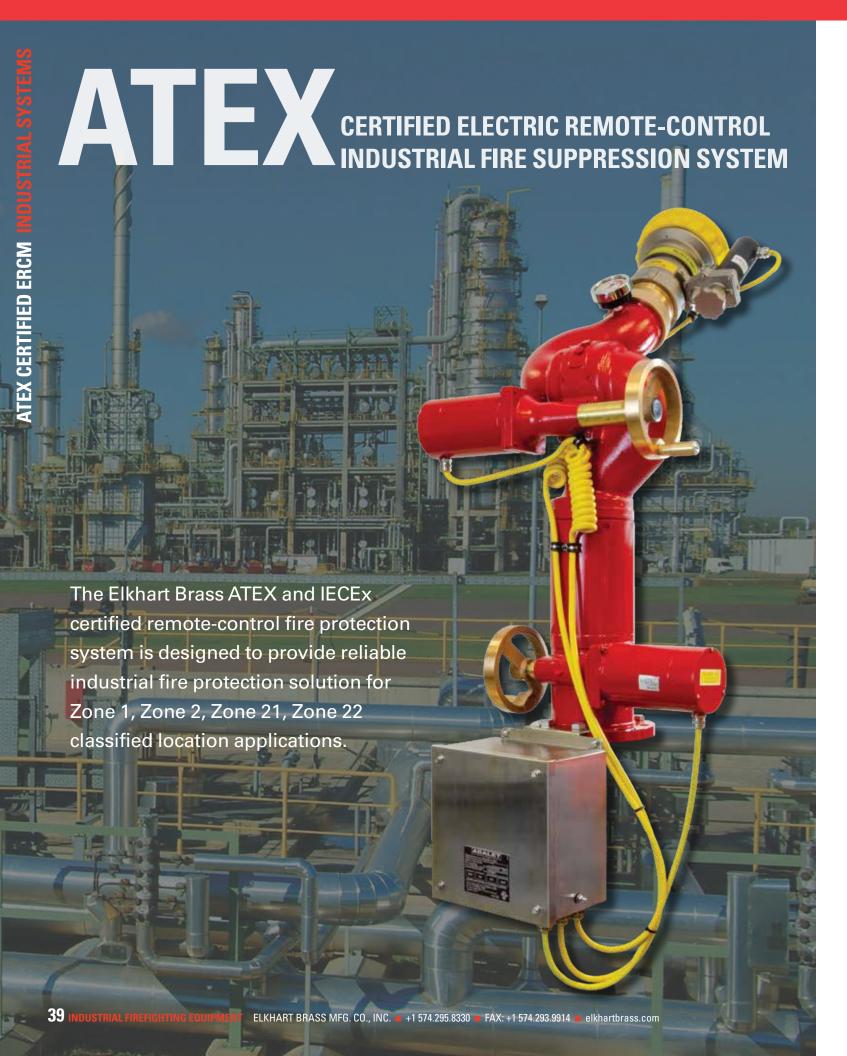
- 220-240VAC @ 1.0A optional input power
- Optional wall-mount, free-standing console, or desktop
- Consolette enclosures
- Optional fiber communication connections
- Optional EWON device (for remote system access for troubleshooting and support)
- Optional Ergonomic Multi Axis Joystick (on free standing console only)



Optional Motor Operated Valve (MOV)

- 4.0" Electric Butterfly Valve
- Can be used on remote controlled monitor systems
- Temperature range: -40 to 149°F; Stainless Steel valve with EPDM seat; 120-240VAC 50/60 Hz., 1-phase operating power; NEMA 4, 4x and 6, IP66/68; operating pressure - 150 PSI
- FM Approved: Class I Zone 1; AEx/Ex de IIB T5: Acceptable for Class I, Div. 2, Groups C and D, T5 Class II, Div. 2 Groups E, F, and G, Class III:T4















Spit-Fire® Monitor

Control Panel

Remote Control Console

Portable Radio Frequency (RF) Control

Ontional MOV Motor Operated Valve

ATEX SYSTEM KEY FEATURES:

- 2000 gpm (7570 LPM) maximum flow rate
- Up to 300 feet (91m) stream reach
- 85 Brass monitor construction for corrosive environment and sea water applications
- Ex d flameproof and Ex e increased safety control panel enclosure
- AC synchronous motors operated monitor for heavyduty cycle and no risk of overheating
- Double-race brass bearings on vertical and horizontal swivels ensure monitor reliability and durability
- Manual override enables manual control at any time
- Automatic horizontal oscillation available with networked control panel only
- Communication with facility fire detection and alarm system enables system activation via fire alarm input. Available with network control panel only
- Group response enables grouping and activation of group(s) of monitors with input from fire detection system or a panic push button. Available with network control panel only

- Optional touch screen HMI control for operation from 1.2 miles (2 km) distance with multi-mode or 62 miles (100 km) distance with single-mode fiber optic connection. Available with network control panel only
- Optional portable Radio Frequency (RF) control with up to 1000 feet (305 m) range. Available with network control panel only
- Networkable (available with network control panel only)
- Up to 24 monitors per RF transmitter
- Up to 24 monitors per system to 128 monitors per
- Cat 5e copper or fiber (multimode or single mode) networking. Available with network control panel only
- Up to 1.2 mile (2 km) distance between devices with multi-mode or 12.4 miles (20 km) with single mode fiber optic connection. Available with network control panel only
- Integration with field devices such as flame and heat detection systems. Available with network control panel only
- 5-year limited warranty for monitor system and 2-year limited warranty for control panels

CLASSIFIED LOCATIONS:

The Elkhart Brass ATEX certified Electric Remote-Controlled fire suppression system is designed to provide reliable industrial fire protection solution for the following classified locations.

- ATEX Zone 1, Zone 2, Zone 21, Zone 22
- IECEx Zone 1, Zone 2, Zone 21, Zone 22
- Ex db eb h IICT4 Gb
- Ex h tb IIIC T130° C Db

ATEX CERTIFIED ERCM

8394-159 Spit-Fire® Monitor Electric Remote Controlled Monitor

220-240VAC (50/60 Hz) Synchronous motors; 2,000 gpm (7,570 LPM) max flow rate; 200 psi (14 BAR) maximum operating pressure; -45 to +90 (135) max vertical travel; 347 max horizontal travel; 4.0" 150# ANSI flange inlet; 3.5" NHT male outlet; 85 brass with red urethane enamel; suitable for ATEX Zone 1, Zone 2, Zone 21, Zone 22 and IECEx Zone 1, Zone 2, Zone 21, Zone 22; ATEX and IECEx certified, red paint finish.



SM-1250BE-HL ATEX Nozzle

220-240VAC (50/60 Hz) pattern control synchronous motor; 75 psi (5.17 BAR); 3.5" NH female base constant flow; 230 ft (70m) effective reach; straight stream; narrow fog (30) and wide fog (90); 350 to 1250 gpm (1,330 to 4,750 LPM) flow rate; brass; suitable for ATEX Zone 1, Zone 2, Zone 21, Zone 22 and IECEx Zone 1, Zone 2, Zone 21, Zone 22 classified locations; ATEX and IECEx certified, NFPA 70 (NEC) compliant.



SM-2000BE-HL ATEX Nozzle

220-240VAC (50/60Hz) pattern control synchronous motor; 75 psi (5.17 BAR); 3.5" NH female base constant flow; 320 ft (98m) effective reach; straight stream; narrow fog (30) and wide fog (90); 500 to 2000 gpm (1,900 to 7,600 LPM) flow rate; brass; suitable for ATEX Zone 1, Zone 2, Zone 21, Zone 22 and IECEx Zone 1, Zone 2, Zone 21, Zone 22 classified locations; ATEX and IECEx certified, NFPA 70 (NEC) compliant.



Standard Panel Local Control Panel

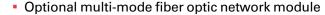
Monitor motor and operator control panel with controls for basic monitor function and water valve operation; suitable for ATEX Zone 1, Zone 2, Zone 21, Zone 22 and IECEx Zone 1, Zone 2, Zone 21, Zone 22; classified location; 240VAC 50/60 Hz input voltage; Ex d flameproof enclosure joined with Ex e increased safety enclosure; gland plate included.



ATEX CERTIFIED ERCM INDUSTRIAL SYSTEMS

Network Panel Local Control Panel

Machine motor and operator control panel with a complete panel of function controls; suitable for ATEX Zone 1, Zone 2, Zone 21, Zone 22 and IECEx Zone 1, Zone 2, Zone 21, Zone 22; classified location; 240VAC 50 Hz input voltage; factory configurable to run on 60 Hz; networkable; Alarm Input/Group Response over Ethernet network; Ex d flameproof enclosure joined with Ex e increased safety enclosure; gland plate included.



- Optional RF control
- Optional Remote HMI control



RF Control

Provide wireless control of up to 24 monitors per belly pack. Handheld options available. ATEX Zone 1 certified.



Remote HMI Touchscreen Controller

Provides Control for up to 128 Monitors. Intuitive touchscreen controller, providing all Operator Control Panel functions and advanced programming and troubleshooting functions; 120/240VAC (50/60 Hz); UL Listed; painted carbon steel.

- Optional wall-mount, free-standing console, or desktop consolette enclosures
- Optional fiber communication connections
- Optional EWON device (for Elkhart Brass remote system) troubleshooting)
- Optional Ergonomic Multi Axis Joystick (Available on free standing console only) (Not UL Listed)







Monitor and Hydraulic

The Elkhart Brass hydraulic remote-control fire protection system is designed to provide reliable industrial fire protection solutions for Class I, Class II and Class III classified locations. The fully remote controllable solution design enables ease of install and operation and incorporates high-quality, system reliability and flexibility required for modern industrial fire protection application.



Operator Control Panel (OCP)



Remote Control Console



(RF) Control

HRCM KEY FEATURES:

- Available with optional absolute position feedback via analog encoders. This enables monitors to maintain pre-programmed coordinates after power loss
- Suitable for following classified areas
- Class I, Division 1, Groups B, C, D,T6
- Class II, Division 1, Groups F & G,T6
- Class III, Division 1
- 85 Brass monitor construction for corrosive environment and sea water applications
- Double-race, brass bearings on vertical and horizontal swivels ensures monitor reliability and durability
- Automatic oscillation available with optional encoders
- Communication with facility fire detection and alarm system enables system activation via fire alarm input

- Group response enables grouping and activation of group(s) of monitors with input from fire detection system
- Networkable
- Up to 24 monitors per system with RF network
- Up to 128 monitors per system with Operator Control Panel (OCP) network via ethernet IP
- Cat 5e copper or fiber (multimode or single mode) networking
- Up to 1.2 miles (2 km) distance between devices
- Optional portable Radio Frequency (RF) control with up to 1000 feet (305 m) range
- Integration with ancillary devices such as flame and heat detection systems
- NEMA 4x OCP enclosure enables outdoor mount of the OCP
- 5-year limited warranty for monitor system and 2-year limited warranty for control panels/units

HRCM APPLICATIONS:

- Oil Refineries
- Oil Rigs
- Petrochemical **Processing Plants**
- Tank Farms

- Fueling Areas
- Docks
- Coal Storage
- Sulfur Storage
- Sugar Storage
- Chemical Processing
- Lumber Mills
- Paper Mills



SELECT WITH CONFIGURATION EXAMPLE #1

The select package prevents local operator exposure to the hazard with an Operator Control Panel (OCP) outside of the hazard zone. Capable of system activation via facility fire alarm input.

 Optional RF control for up to 24 monitors per system

PREMIUM WITH CONFIGURATION EXAMPLE #2

The premium package prevents local operator exposure to the hazard with (OCP) outside of the hazard zone and enable control from remote location via HMI console.

- Capable of system activation via facility fire alarm input
- Capable of manual override with either OCP left/right, up/down and straight/fog toggle switches or via remote HMI console
- Networkable with either fiber (multimode/ single mode), Cat 5e copper. Up to 128 monitors per network system
- Capable of group activation
- Optional RF control available

OPTIONAL

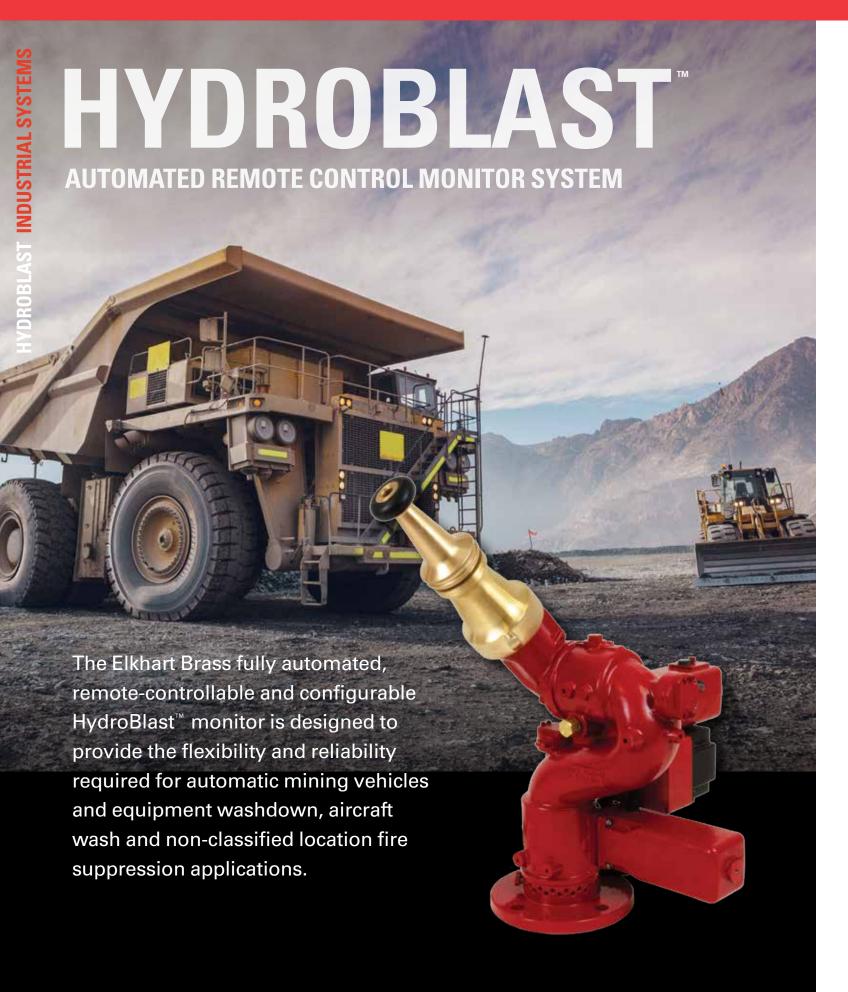
RF Control Optional RF control enables portable Radio Frequency (RF) control.

- Up to 1000 feet RF control range (305 m)
- Optional RF control for up to 24 monitors per system

CUSTOMIZABLE CONFIGURATIONS

Elkhart Brass has a long history of providing customizable, configurable product solutions to its customers. Fire protection systems throughout the world rely on our experience to not only listen to your needs, but deliver top-quality, manufactured products designed to work better. Visit the Elkhart Brass website today to learn more, or contact a representative for a truly custom, personal experience.

HAVE IT YOUR WAY



Designed for frequent, repeated and multi-spray pattern applications, the HydroBlast[™] is equipped with seal and bearing designs that provide ultimate protection against fine mining dust and water ingress to ensure durability. In addition, the HydroBlast system offers programming and configuration flexibility that enables customers to choose from utilizing the HydroBlast remote control system or using customer plant PLC control unit to control the functions of the HydroBlast system. The HydroBlast system is feature rich and offers the industry's most cost-efficient and reliable solutions in its class.



HYDROBLAST KEY FEATURES:

Durability

Safety

- Heavy-duty cycle motors
- Thrust bearing design
- Industrial grade bearings
- Industrial grade seals
- IP68 rated monitor

- Mechanical stop limits
- Programmable stops
- Absolute positioning sensing

Configurable

- Field programmable
- Learn feature via joystick operation
- Customer defined wash sequence

Versatile

 Automatic activation of recipe via asset tag

- Local joystick control for recipe creation
- Modular expandable
- Networkable via Internet IP, Modbus
- TCP, CANbus, Bluetooth and Bluetooth low energy

Built to Last

- Optional SS protective cage to protect against fast moving ore
- Corrosion resistance silicon bronze construction
- Industrial grade bearings
- Industrial grade seals
- Protective motor covers
- Protective bumper to protect nozzle against impact

Ease of Install & Service

- Low profile easy to install
- Event log

- Real time troubleshooting instructions
- Automatic event driven email notification
- Remote diagnostics

Performance

- 50-700 gpm (180 to 2550 LPM) flow rate
- Max operating pressure: 250 psi (17 BAR)
- Vertical Oscillation: -45° to +90°
- Horizontal Oscillation: 350°
- Stream reach: Up to 271 ft (83 m)
- +/-0.5° positioning accuracy
- Absolute positioning feedback
- Ambient temp rating: -13° F to 149° F (-25° C to 65° C)

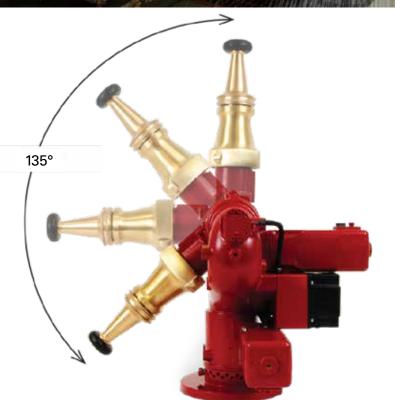
HYDROBLAST APPLICATIONS:

- Dust mitigation applications
- Mining and construction equipment cleaning
- Mining fire protection applications
- Chute cleaning
- Damper bin cleaning
- Reclaimer cleaning

- Conveyor belt cleaning
- Mining vehicle washdown
- Rail cars washdown
- Lumber mills
- Construction equipment washdown
- Dust mitigation

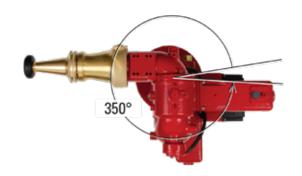
- Arena fire protection
- Stadium fire protection
- Convention center fire protection
- Waste recycling plant fire protection
- Waste treatment overflow tank cleaning







Thrust rods and bearings reduce wear on joints to improve life cycle and durability.



SYSTEM MONITOR OPTIONS



HvdroBlast™

- Rated up to 750 gpm (2900 LPM)
- Rugged silicon bronze construction
- Heavy-duty use





Cobra[™] EXM2

- Rated up to 1250 gpm (4750 LPM)
- Teflon-impregnated hard-coated finish
- Lightweight aluminum construction



Sidewinder® EXM2

- Rated up to 750 gpm (2900 LPM)
- Teflon-impregnated hard-coated
- Lightweight aluminum construction

Scorpion® EXM2

- Rated up to 2500 gpm (9500 LPM)
- Teflon-impregnated hard-coated finish
- Lightweight aluminum construction

HYDROBLAST MONITOR SYSTEM

Designed for frequent, repeated and multi-spray pattern applications, the HydroBlast is equipped with seal and bearing designs that provide ultimate protection against fine mining dust and water ingress to ensure durability.

- Field programmable HMI touch screen for managing the functions of up to 16 independent monitors
- Learn feature via joystick operation enables field configuration of spray patterns for fire suppression and wash down applications
- Real time troubleshooting via HMI control unit enables system diagnostics from remote location
- Heavy-duty silicon bronze monitor for corrosive and non-corrosive environment applications
- Lightweight Teflon impregnated hard anodized aluminum monitors for non-corrosive environment applications

INDUSTRIAL AND ELECTRIC FOG HANDLINE NOZZLES

205-B Industrial Nozzle

Constructed out of brass materials, 205-B nozzles are built to last and are maintenance free. They are easy to operate and provide straight/jet stream, narrow fog and wide fog stream patterns.

- 170 gpm @ 100 psi (650 LPM @ 7 BAR)
- 250 gpm @ 100 psi (950 LPM @ 7 BAR)
- 1.5" inlet

205-EB Electrical Fog Nozzle

205-EB electrical fog nozzles are designed to be used in class 'C' hazard applications and utilize only fog capabilities in combating blazes at 10-feet or more from electrical equipment with up to 250,000 voltage.

- 170 gpm @ 100 psi (650 LPM @ 7 BAR)
- 250 gpm @ 100 psi (950 LPM @ 7 BAR)
- 1.5" inlet
- Consistent fog pattern to prevent electrocution from fighting fires of energized electrical equipment

L-205-B Industrial Nozzle

Constructed out of brass materials, L-205-B nozzles are built to last and are maintenance free. They are easy to operate and provide straight/jet stream, narrow fog and wide fog stream patterns.

- 60 gpm @ 100 psi (230 LPM @ 7 BAR)
- 95 gpm @ 100 psi (360 LPM @ 7 BAR) UL Listed
- 125 gpm @ 100 psi (475 LPM @ 7 BAR) UL Listed
- 1.5" inlet



Elkhart Brass industrial handline and electrical fog nozzles are designed for deployments by industrial fire brigades in refineries, chemical plants, office complexes and other on-site emergency situations. These nozzles are designed or aggressive industrial environment, and most comply with the current edition of the UL 401 standard.

KEY FEATURES:

- Most models are UL Listed to current edition of the UL401 standard for combating class A & B fire
- Flush feature enables debris passage through the nozzle with no adverse effect on the functionality of the nozzle
- Knurled grip ensures fast deployment and shutoff of the nozzle

L-205-EB Electrical Fog Nozzle

The L-205-B electrical fog nozzles are designed to be used in class 'C' hazard applications and utilize only fog capabilities in combating blazes at 10-feet or more from electrical equipment with up to 250,000 voltage.

Constructed out of brass materials, L-205-B nozzles are built to last and are maintenance free. They are easy to operate and provide straight/jet stream, narrow fog and wide fog stream patterns.

- 60 gpm @ 100 psi (230 LPM @ 7 BAR)
- 95 gpm @ 100 psi (360 LPM @ 7 BAR) UL Listed
- 125 gpm @ 100 psi (475 LPM @ 7 BAR) UL Listed
- 1.5" inlet
- Consistent fog pattern to prevent electrocution from fighting fires of energized electrical equipment

D-205-B Industrial Nozzles

Constructed out of brass materials, D-205-B nozzles are built to last and are maintenance free. They are easy to operate and provide straight/jet stream, narrow fog and wide fog stream patterns.

- 170 gpm @ 100 psi (650 LPM @ 7 BAR)
- 250 gpm @ 100 psi (950 LPM @ 7 BAR)
- 1.5" inlet
- UL Listed

D-205-EB Electrical Fog Nozzle

The L-205-B electrical fog nozzles are designed to be used in class 'C' hazard applications and utilize only fog capabilities in combating blazes at 10-feet or more from electrical equipment with up to 250,000 voltage.

- 170 gpm @ 100 psi (650 LPM @ 7 BAR)
- 250 gpm @ 100 psi (950 LPM @ 7 BAR)
- 2.5" inlet
- Consistent fog pattern to prevent electrocution from fighting fires of energized electrical equipment





Elkhart Brass marine handline nozzles are designed for use in marine firefighting applications. These nozzles can stand up to aggressive marine environments, utilize military grade components, and are constructed of marine grade brass. They are suitable for use with AFFF foam for the shipping industry, refineries, offshore rigs, and military applications. Many of them meet the stringent performance requirements of the U.S. Navy and/or U. S. Coast Guard, and are FM Approved.

KEY FEATURES:

- 85 brass construction with a lower level of zinc for outstanding resistance to corrosion
- Heavy-duty manganese/bronze horseshoe shutoff handle
- Constant flow rate from straight steam to wide fog
- Acetal ball with self-adjusting UHMWPE seat
- Flush without shutting down

SELECTABLE FLOW MARINE NOZZLES

SFL-B

- Flow Rates: 40, 60, 95, and 125 gpm @ 100 psi (150, 230, 360 and 475 LPM @ 7 BAR)
- 1.5" inlet

SFL-BG

Pistol Grip



FIXED FLOW MARINE NOZZLES

SFL-GN-SPL

The Elkhart Brass SFL-GN-SPL handline nozzle is a constant flow, rugged brass handline nozzle designed for use in the harshest environments with an electroless nickel plated coating. It is easy to operate and provides straight/jet stream, narrow fog and wide fog stream patterns.

- 95 gpm @ 100 psi (360 LPM @ 7 BAR)
- 1.5" inlet
- Pistol Grip
- Electroless Nickel Plated
- FM Approved

SFL-N Marine Handline Nozzle

The Elkhart Brass SFL-N marine handline nozzle is a constant flow light weight, rugged brass handline nozzle designed for quick deployment. The SFL-N is easy to operate and provides straight/jet stream, narrow fog and wide fog stream patterns.

- 95 gpm @ 100 psi (360 LPM @ 7 BAR)
- 125 gpm @ 100 psi (475 LPM @ 7 BAR)
- 1.5" inlet

SFL-GN Marine Handline Nozzle

- Pistol Grip
- Complies with Mil-N-24408E Standard

SFL-CG-95 Marine Handline Nozzle

The US Coast Guard approved Elkhart Brass SFL-CG-95 marine handline nozzle is a constant flow rugged brass handline nozzle designed for quick deployment. The SFL-CG-95 is easy to operate and provides straight/jet stream, narrow fog and wide fog stream patterns.

- 95 gpm @ 100 psi (360 LPM @ 7 BAR)
- 1.5" inlet
- FM Approved
- U. S. Coast Guard Approved

SFL-GCG-95 Marine Handline Nozzle

- Pistol Grip
- FM Approved
- U. S. Coast Guard Approved

DSF-N Marine Handline Nozzle

The Elkhart Brass DSF-N marine handline nozzle is a constant flow, rugged brass handline nozzle designed for quick deployment. The DSF-N is easy to operate and provides straight/jet stream, narrow fog and wide fog stream patterns.

- 250 gpm @ 100 psi (950 LPM @ 7 BAR)
- 2.5" inlet
- Complies with Mil-N-24408E Standard





MORE INFORMATION



FIELD KITS

Elkhart Brass offers field service kits for nozzles, valves and appliances.
These kits include information on repairs, parts and service. Learn more at elkhartbrass.com or contact a representative today.

TECHNICAL DATA

Available on our website in Technical Data section or by contacting Elkhart Brass direct, find multimedia and other valuable resources for reach, friction loss, flow and performance data, and much more.

MANUALS

Elkhart Brass and its products are supported through comprehensive manuals for most categories. Find downloads at elkhartbrass.com with all of the product information you should need.

SPECIFICATIONS

Downloadable, printable specifications sheets are available for most products at the Elkhart Brass website. You will find tips, sizes, materials used, certain operational instructions, and more.

CUSTOM SOLUTIONS

Elkhart Brass has a long history of providing customizable, configurable product solutions to its customers. Fire protection systems throughout the world rely on our experience to not only listen to your needs, but deliver top-quality, manufactured products designed to work better.

HOW TO ORDER

Sales Managers are listed by your location on our website.
This includes The United States, Canada, Mexico, Europe, Africa, Asia, and more. They will assist with information or ordering and will also provide demos of products by request and availability.

OTHERMARKETS WESTERVE Elkhart Brass has for decade

Elkhart Brass has for decades, even over a century with some, served the firefighting equipment and fire protection markets. These include OEM vehicle builders, municipalities throughout the world, industrial customers like mining and construction segments, and building interior safety systems.









ABOUT SAFE FLEET

In 2015, Elkhart Brass was acquired by Safe Fleet. The corporation's portfolio of brands serves major markets including Emergency, Military, Industrial, Work Truck, Waste, Truck/Trailer, and Bus/Rail/RV. The combination of Elkhart Brass with FRC, FoamPro and ROM enables the company to develop integrated systems of monitors, valves, foam proportioning and electronic controls for the global emergency market. Headquartered in Belton, MO, Safe Fleet employs over 1000 employees. The Safe Fleet family of brands operates over 500,000 square feet of manufacturing space and targets markets with increasing demand for operator, passenger and pedestrian safety. For more information about Safe Fleet you can visit www.safefleet.net.



Driving Safety Forward™





















TAKE ACTION elkhartbrass.com

Since 1902 Elkhart Brass has been an innovator in the fire protection and firefighting equipment industries. Today, with well over 2,000 products, the company has become a leader in the various markets served. Find out more by visiting the elkhartbrass.com website, social media channels, Knowledge Drop and other training, educational and product videos; and see more details. There are many resources available to help you find and enjoy the right product solution at Elkhart Brass.



A Safe Fleet Brand

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Follow us on all of these social media channels for the latest information about Elkhart Brass products.











For official Elkhart Brass merchandise visit our store at www.elkhartbrass.shop

