



**ELKHART  BRASS**

**BETTER ENGINEERED**

**FIRE APPARATUS EQUIPMENT**  
MONITORS / NOZZLES / APPARATUS VALVES & FITTINGS / ACCESSORIES

SAFE  FLEET  
*Driving Safety Forward™*

# A WARM WELCOME

## BETTER EQUIPPED TO FIGHT

When the pressure is on, an apparatus equipment manufacturer who understands the needs of firefighters and their rigs is critical. Elkhart Brass has been offering quality products and solutions since 1902. We are the industry's most experienced manufacturer of innovative firefighting and fire truck apparatus equipment. With over 2,000 products, used in virtually every aspect of firefighting, Elkhart Brass leads the way. Our products are found in fire departments around the world, building systems and off-shore drilling sites, as well as in military, marine, mining and other industrial firefighting applications.



## MONITORS

### EXM2 CONTROL

Sidewinder® EXM2	09
Sidewinder® EXM2 UHP	11
Cobra™ EXM2	13
CobraMAX™	15
Boa™ X2 2000	17
Scorpion® EXM2	19
SkyStream™ EXM2	21
Magnum™ EXM2	23

### ELECTRIC HARDWIRED CONTROL OPTIONS

BrushHawk™	25
Scorpion® Electric	27

### MANUAL CONTROL

Stinger® 2.0	29
Vulcan	33
Sidewinder®	35
Scorpion®	36

### MASTER STREAM

5000 Series	39
6000 Series	40
X-Stream®	41
Smooth Bore Tips	45
Stream Shapers	47
Foam Expansion Tubes	48
Hydro-Foam®	49

### BUILT-IN FOAM EDUCTORS

50

### ACCESSORIES

The Extender	51
--------------	----

### APPARATUS VALVES

Unibody™ Apparatus	53
APEX™ Valve Controller	57
Single Body Apparatus	59
Unibody™ Handwheels	60
Remote Valve Controls	61
Suction Intake	64
Miscellaneous Apparatus	65

### APPARATUS FITTINGS

67

### WRENCHES & HOLDERS

70

### APPARATUS ACCESSORIES

71

### HOSE & SUCTION ADAPTERS

73

### CAPS & PLUGS

77

### MORE INFORMATION

79

# 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/](http://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](http://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 Iowa 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





# MONITORS

From low flow manual monitors to extreme flow remote control options that include the latest in Wi-Fi technology, Elkhart Brass manufactures a complete line of monitors to fit any and every application. Flow efficient waterways produced from Teflon impregnated aluminum alloy. From our foundry to your department, designed and manufactured in Elkhart, Indiana, USA.



## 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
- VULCAN™
- SIDEWINDER®
- SCORPION®

# EXM2 MONITORS OVERVIEW



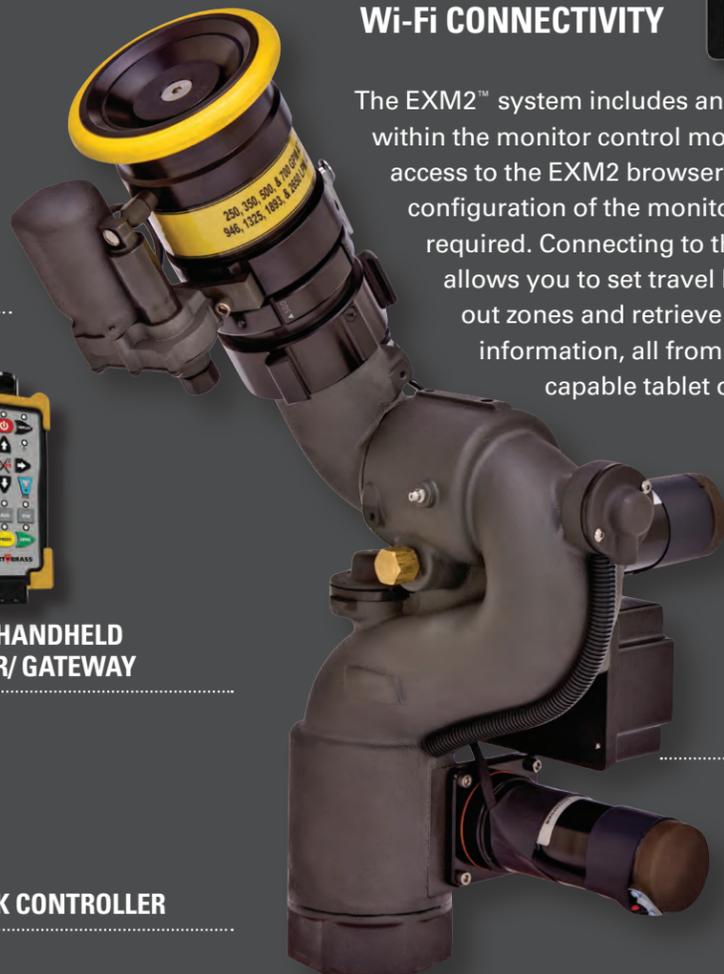
**PANEL MOUNT CONTROLLER**



**WIRELESS HANDHELD CONTROLLER/ GATEWAY**



**JOYSTICK CONTROLLER**



## Wi-Fi CONNECTIVITY

The EXM2™ system includes an integrated Wi-Fi server within the monitor control module. This provides secure access to the EXM2 browser page for simple, intuitive configuration of the monitor and controllers when required. Connecting to the monitor via Wi-Fi also allows you to set travel limits, keep out zones and retrieve diagnostic information, all from a Wi-Fi capable tablet or laptop.



**POSITION DISPLAY**



**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 Valve
- AUX button for powering an external device such as a light or camera



**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 pre-configured 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.



## MECHANICAL FEATURES:

- Motors and control components sealed to NEMA 4
- Axially aligned thrust bearings for extreme durability
- 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



**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 sensors.



**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 pre-determined attack position with the press of a button, while the STOW feature returns the monitor to a programmed home position.



# SIDEWINDER<sup>®</sup> EXM<sup>2</sup>

Wi-Fi ON BOARD



MODELS:  
7100SDX2 / 7100HDX2

7100X2 Series monitors feature built-in Wi-Fi for simple programming and setup. The EXM<sup>2</sup>™ controls, both wired and wireless, provide improved performance and operator control. Specifically designed for rugged applications, the Sidewinder<sup>®</sup> 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

### OUTLET:

- 2.5" male outlet



### 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 & Accessories



6000-200E (D)



6000-700E (D)



LIGHT KIT  
7091X2



QUICK CONNECT  
7150

# SIDEWINDER<sup>®</sup> EXM<sup>2</sup> UHP



MODEL: 7161X2UHP

Wi-Fi ON BOARD



More Power. Less Water. Designed to meet U.S. Military standards, the compact, ultra high pressure Sidewinder<sup>®</sup> 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<sup>™</sup> 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



**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™ EXM<sup>2</sup>

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.



JOYSTICK CONTROLLER  
7030X2



WIRELESS HANDHELD  
CONTROLLER/GATEWAY  
7015X2



PANEL MOUNT  
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

# COBRA MAX™ CUSTOM TO THE MAX

Max out your Cobra™ EXM2 CobraMax™, all the power and performance of the Cobra EXM2 with a combination cowling and lighting kit. The thermoformed cowling covers your Cobra EXM2, adding a sleek look and a layer of protection for much of the exposed wiring. The light module is a stunning addition that allows you to customize your monitor with your own backlit graphics on each side. CobraMax: maximum performance, maximum customization.



## COBRA MAX™

### 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.



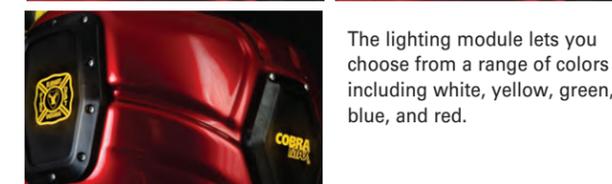
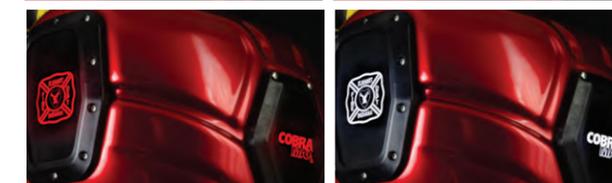
Matte or Gloss Black

Gloss Red

Gloss Gray



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



The lighting module lets you choose from a range of colors including white, yellow, green, blue, and red.

# 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.



## KEY FEATURES:

- 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  
7030X2



PANEL MOUNT CONTROLLER  
7010X2



WIRELESS HANDHELD  
CONTROLLER/GATEWAY  
7015X2



POSITION DISPLAY  
7051X2

## Recommended Nozzles & Accessories



SM-2000E (D)



ST-195 STACKED TIPS



284-A STREAM SHAPER



252-8 FOAM TUBE

# SCORPION<sup>®</sup> EXM<sup>2</sup>



WI-FI ON BOARD



MODEL: 7400X2

Efficient, high-flow, electric remote controlled, the Scorpion<sup>®</sup> EXM2 monitor is ideal for fire apparatus, ARFF industrial pumper, and de-icing vehicles and is a high flow addition to the EXM2<sup>™</sup> 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.

### KEY FEATURES:

- Rated for 2500 gpm (9500 LPM)
- 500 psi (34.5 BAR) maximum pressure rating
- 3.5" 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:

- 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

# SKYSTREAM™ EXM<sup>2</sup>

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.



### KEY FEATURES:

- 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

# MAGNUM™ EXM<sup>2</sup>



Wi-Fi ON BOARD



MODEL: 7600X2



## KEY FEATURES:

- Rated for 5000 gpm (20000 LPM)
- 200 psi (14 BAR) maximum pressure rating
- 6" male NHT outlet
- 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

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.



## 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.



#### KEY FEATURES:

- 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 24VDC 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



6000-200E shown

#### Recommended Controllers



##### Joystick

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



##### Valve Kit

- 1-1/2" or 2" ball valve with heavy-duty 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<sup>®</sup> ELECTRIC

MODEL: 8294-04

The Scorpion<sup>®</sup> 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

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





**DECK MODE STAND ALONE TOP MOUNT ADAPTERS**



**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

**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



**8297 MB Portable Base Mounting Bracket**

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



**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)

**8298-EX MB Storage Bracket The Pipe Manual Extender**

- 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.



**KEY FEATURES:**

- 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



8500-02 shown

**Recommended Nozzles & Accessories**



SM-1250



ST-194 STACKED TIPS



282-A STREAM SHAPER



252-8 FOAM TUBE

# SIDEWINDER<sup>®</sup> MANUAL MONITORS



## MODEL: 8492

Designed specifically for the rigors of wildland firefighting or anywhere a compact monitor is needed, the Sidewinder<sup>®</sup> 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 pressure rating
- Durable, lightweight aluminum construction
- Red urethane finish

### TRAVEL RANGE:

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

### INLET:

- 2.0" NPT female

### OUTLET:

- 1.5" male outlet

# SCORPION<sup>®</sup> MANUAL MONITORS

## MODELS:

### 8294-131 (Tiller Bar Control)

### 8294-02 (Dual Handwheel Control)

With its durable, lightweight aluminum construction, the Scorpion<sup>®</sup> 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<sup>®</sup>"), 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<sup>®</sup> XD TIP



MID-RANGE CHIEF XD TIP



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 NOZZLES

Elkhart Brass offers a comprehensive line of Master Stream Nozzles in fixed, automatic or selectable flow options. Most nozzles are available in both manual and electric versions to match all of the monitor offerings.

# 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

## 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



# MASTER STREAM 6000 SERIES

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.

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



## 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





# X-STREAM® NOZZLES

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**



# 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-educing 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-educing 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
- 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 (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



# 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

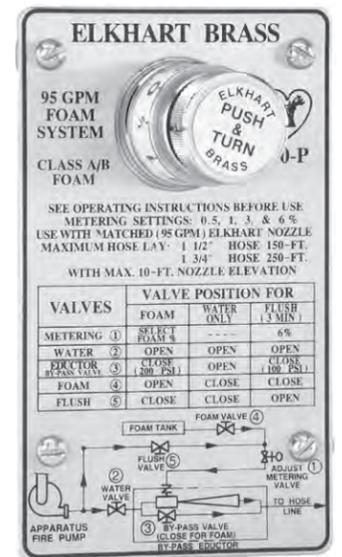
- 60 gpm (230 LPM) flow rate
- 2" female NPT inlet/outlet standard
- Victaulic inlet/outlet optional

### 240-95P

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

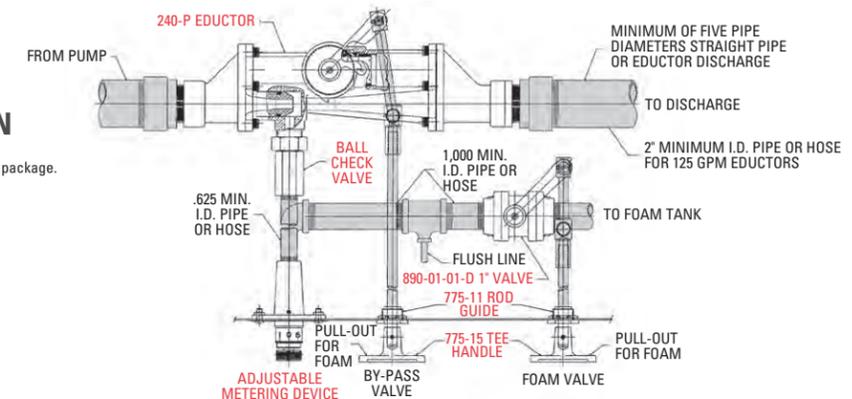
### 240-125P

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



### TYPICAL INSTALLATION

NOTE: Items listed in red type are included in package.



# ACCESSORIES

## The Extender

Designed for use with Elkhart Brass monitors, but compatible with other manufacturers' products, the Extender raises the monitor up to 18" (457 mm) above the deck to provide better stream advantage as well as clearance above obstructions. The Extender is capable of up to 1250 gpm (4750 LPM) with 100 psi (7 BAR) nozzle pressure and is offered in both electric and manual options.

## 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



Easy to operate latch design pictured here. It's safer and simpler to deploy.

# 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.



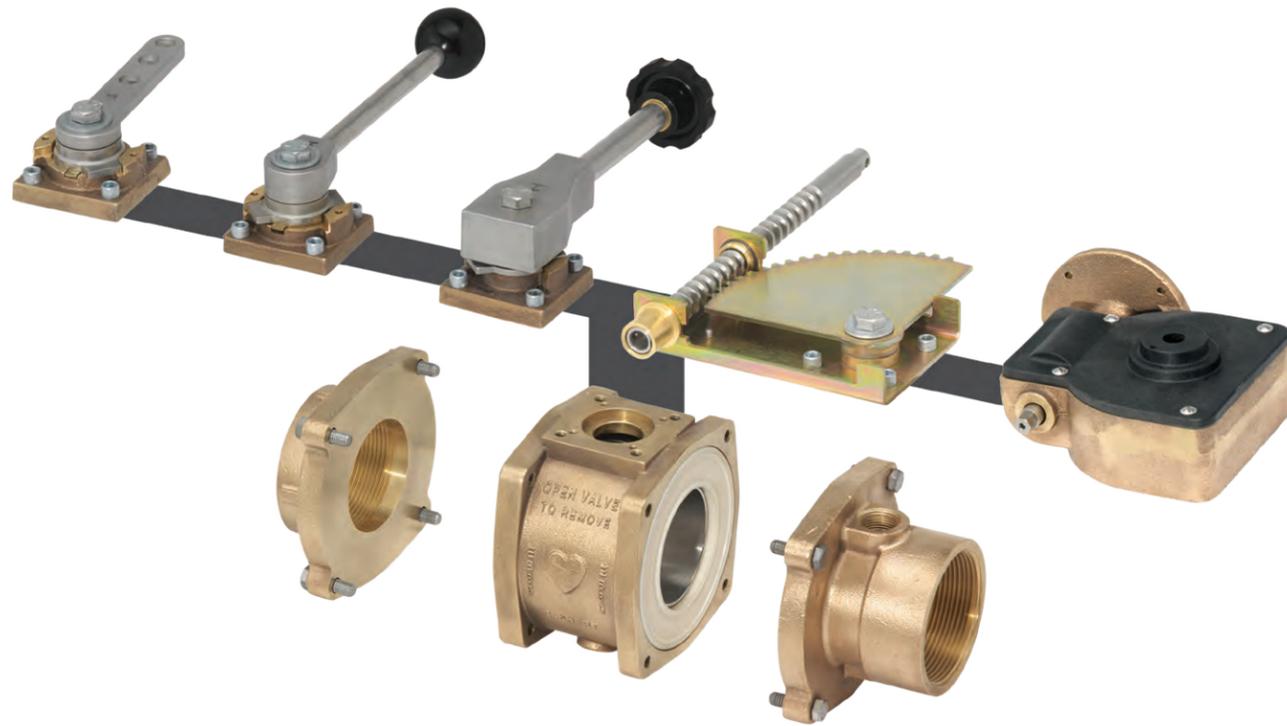
### BALL VALVES KEY FEATURES:

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

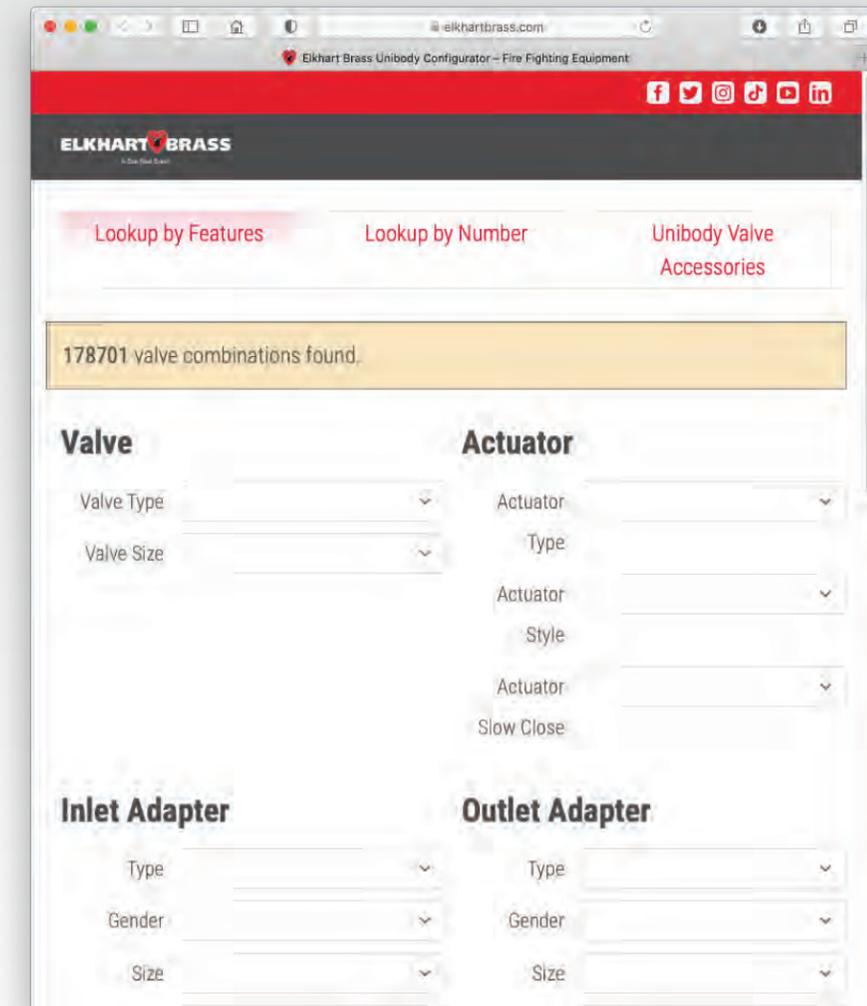
**Built**

- 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](http://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!



**CONFIGURE YOURS AT**  
[unibodyconfigurator.com](http://unibodyconfigurator.com)



# APEX™ ELECTRIC VALVE CONTROLLERS

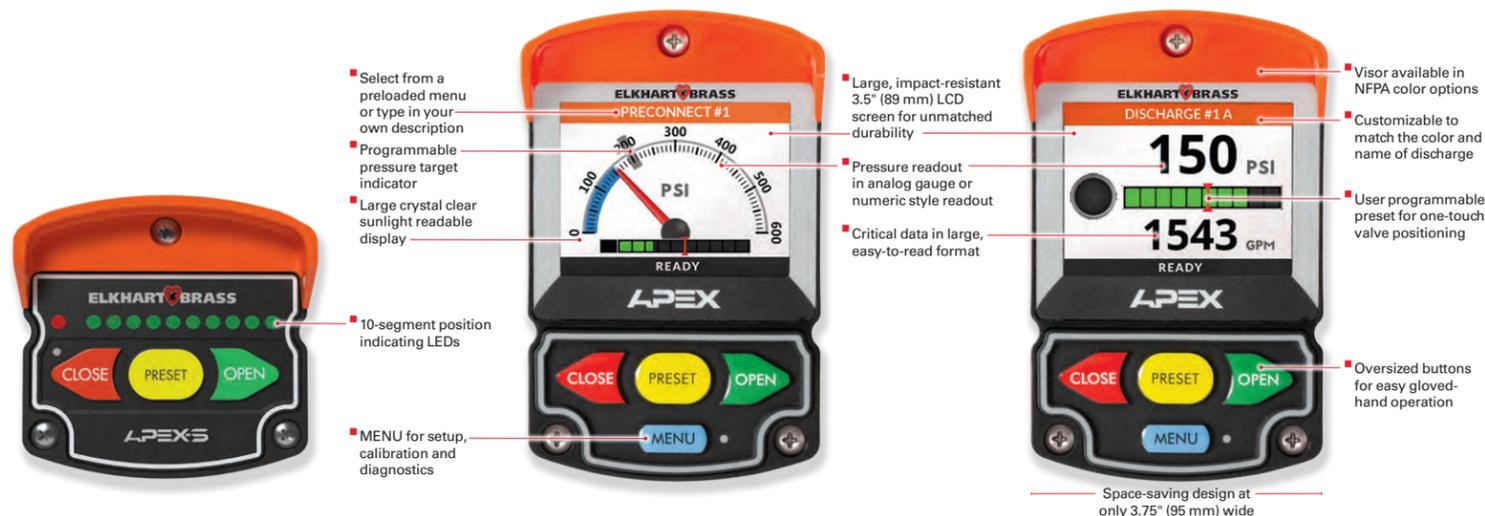
## ULTIMATE SOLUTIONS. ULTIMATE CONTROL

Combine customization capabilities with space saving design, add tactile keypad buttons and large, easy-to-read graphics and the result is an innovative new valve controller. APEX™ provides great benefits to OEMs as well as end users!

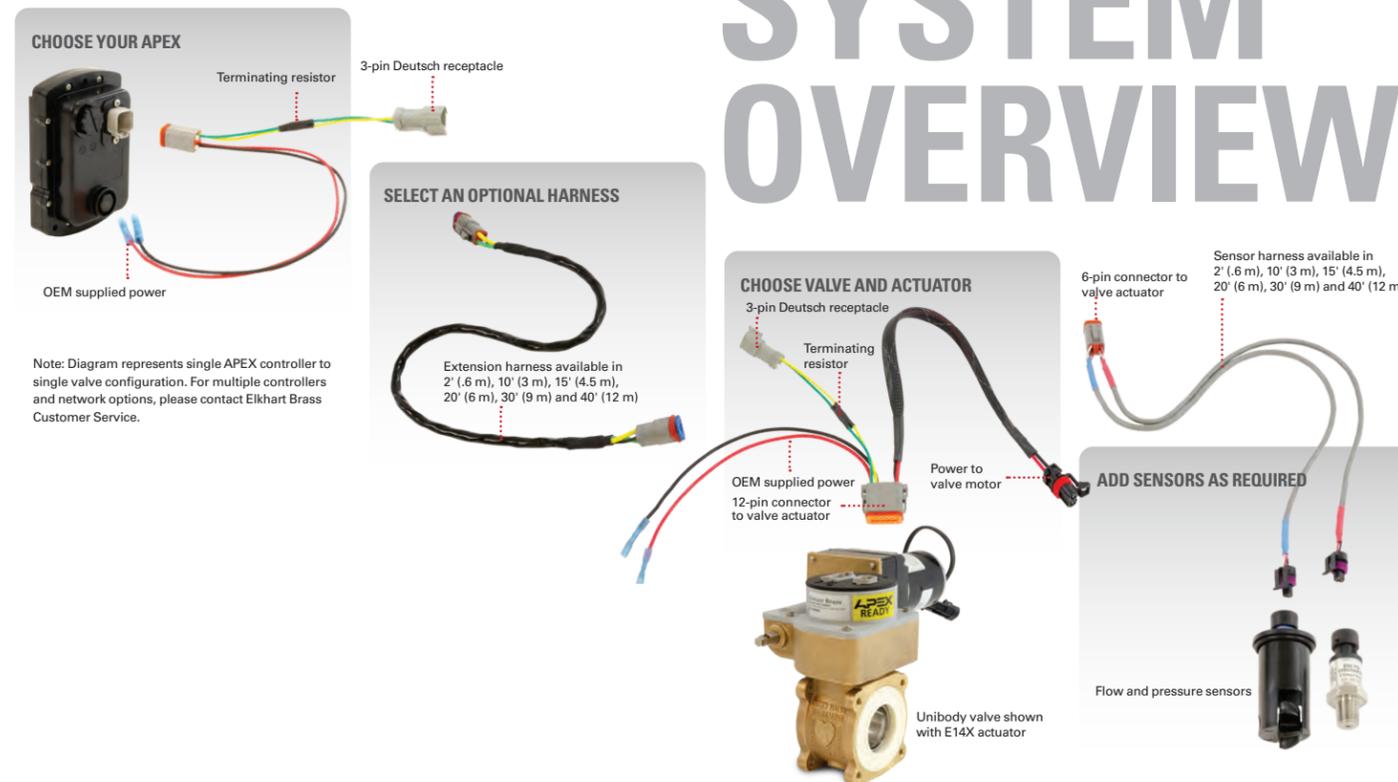
The design and versatility of the APEX Valve allow an OEM to save valuable pump panel space and adapt the controller to any application, while offering only one version of actuator. It takes the guesswork out of the ordering process. Operators will appreciate the large screen with high resolution graphics, while additional features including the adjustable "Target Pressure" indicator and daytime/nighttime screen modes deliver functionality never seen before in a valve controller. The APEX-S offers open/close and preset functions in a compact controller with 10-segment position indicating LEDs instead of the LCD screen.

### KEY FEATURES:

- Oversized buttons for easy gloved-hand operation
- Visors available in NFPA color options
- Customizable to match the color and name of discharge
- User programmable preset for one-touch valve positioning
- 10-segment position indicating LEDs



# SYSTEM OVERVIEW



# 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

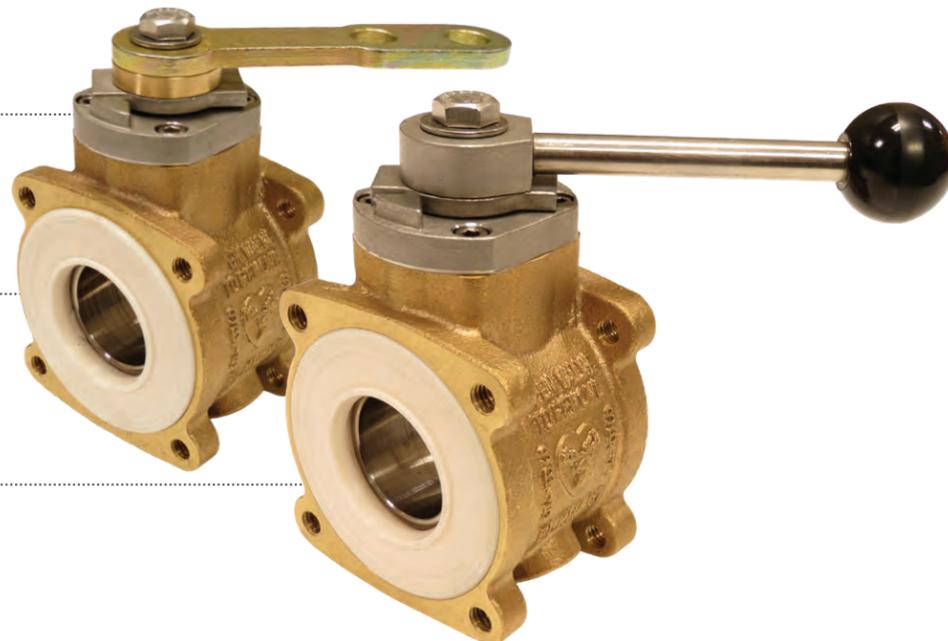
- 1.5" Waterway
- Remote Handle

### 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)



# 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 APPARATUS VALVES



## 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)



### 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](http://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



# 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 Hydrant 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 2.5" pin lug 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

### S-454-S Adjustable Hydrant 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





# APPARATUS ACCESSORIES

## 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

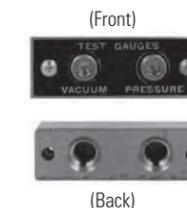


## L653 Tri-Loc™ Nozzle Holder

- 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 AND SUCTION ADAPTERS

## 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 outlet
- 3.0" 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



## 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



## 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



## 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



## 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



## 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](http://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](http://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](http://unibodyconfigurator.com). You can also download the spec sheets and CAD drawings specific to your desired configuration.

CONFIGURE YOURS AT:  
[unibodyconfigurator.com](http://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.

# OTHER MARKETS WE SERVE

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](http://www.safefleet.net).



*Driving Safety Forward™*



SCHOOL BUS



TRANSIT



LAW ENFORCEMENT & MILITARY



FIRE & EMS



WORK TRUCKS



TRUCK & TRAILER



WASTE & RECYCLING



CONSTRUCTION



# TAKE ACTION

[elkhartbrass.com](http://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](http://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.

**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](http://www.elkhartbrass.shop)



# ELKHART BRASS

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