BUILDING SYSTEMS FIRE EQUIPMENT

STANDPIPE VALVES / BUILDING CONNECTIONS / STANDPIPE ESSENTIALS / FLOW TESTING

SAFE FLEET

Driving Safety Forward™

TAKING SAFETY TO HART

BETTER EQUIPPED FOR SAFETY

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 07

URFA™ Field Adjustable Pressure Reducing Valves 09

UR Factory Set Pressure Reducing Valves 11

UP Pressure Restricting Valves 13

U Angle Hose Valves 14

STANDPIPE ESSENTIALS

Standpipe Bag 16

Digital / Analog Gauges 18

FLOW ESSENTIALS

Flow Meter 19

Flow Testing 21

MORE INFORMATION 23

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:

EST. 1902

BRASS TACKS HARD FACTS

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*

ELKHART BRASS KNOWLEDGE DROP

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

AVAILABLE FOR FREE DOWNLOAD

Download on the App Store

GET IT ON Google Play

STANDPIPE VALVES

FIELD ADJUSTABLE REDUCING

FACTORY SET REDUCING

PRESSURE RESTRICTING

ANGLE HOSE

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

STANDPIPE VALVES

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.

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 high-rise 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

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

STANDPIPE VALVES

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 conditions
- 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 NewYork 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

UL LISTED

URFA-20S

- 2.5" female NPT inlet x 2.5" female NPT
- Rough Brass finish

UL LISTED

URFA-25

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

UL LISTED

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-30-1.5

- 1.5" female NPT inlet x 1.5" female NPT
- Rough Brass finish

UR-30-2.5

- 2.5" female NPT inlet x 2.5" female NPT
- Rough Brass finish

UR-35-1.5

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

UR-35-2.5

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

UR-30S-2.5

- 2.5" female NPT inlet x 2.5" female NPT
- Rough Brass finish

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.

FEATURES:

- Reduce pressure under flowing conditions
- Allow fire departments to override settings in emergency conditions
- UL Listed and FM Approved

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

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
- UL Listed and FM Approved

U-30-1.5

- 1.5" female NPT inlet x 1.5" male NHT

OR

- 1.5" female NPT inlet x 1.5" female NPT
- Rated for 300 psi (20.7 BAR)
- Rough Brass finish

U-30-2.5

- 2.5" female NPT inlet x 1.5" male NHT

OR

- 2.5" female NPT inlet x 1.5" female NPT
- Rated for 300 psi (20.7 BAR)
- Rough Brass finish

STANDPIPE ESSENTIALS

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

DIGITAL

ELKHART BRASS KNOWLEDGE DROP

DIGITAL SET UP

ANALOG

ELKHART BRASS KNOWLEDGE DROP

ANALOG SET UP

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

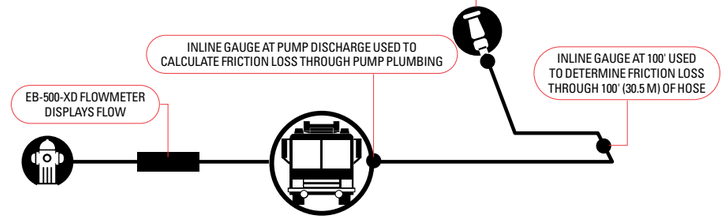
EB-500-XD PORTABLE FLOW METER

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



ELKHART BRASS KNOWLEDGE DROP

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

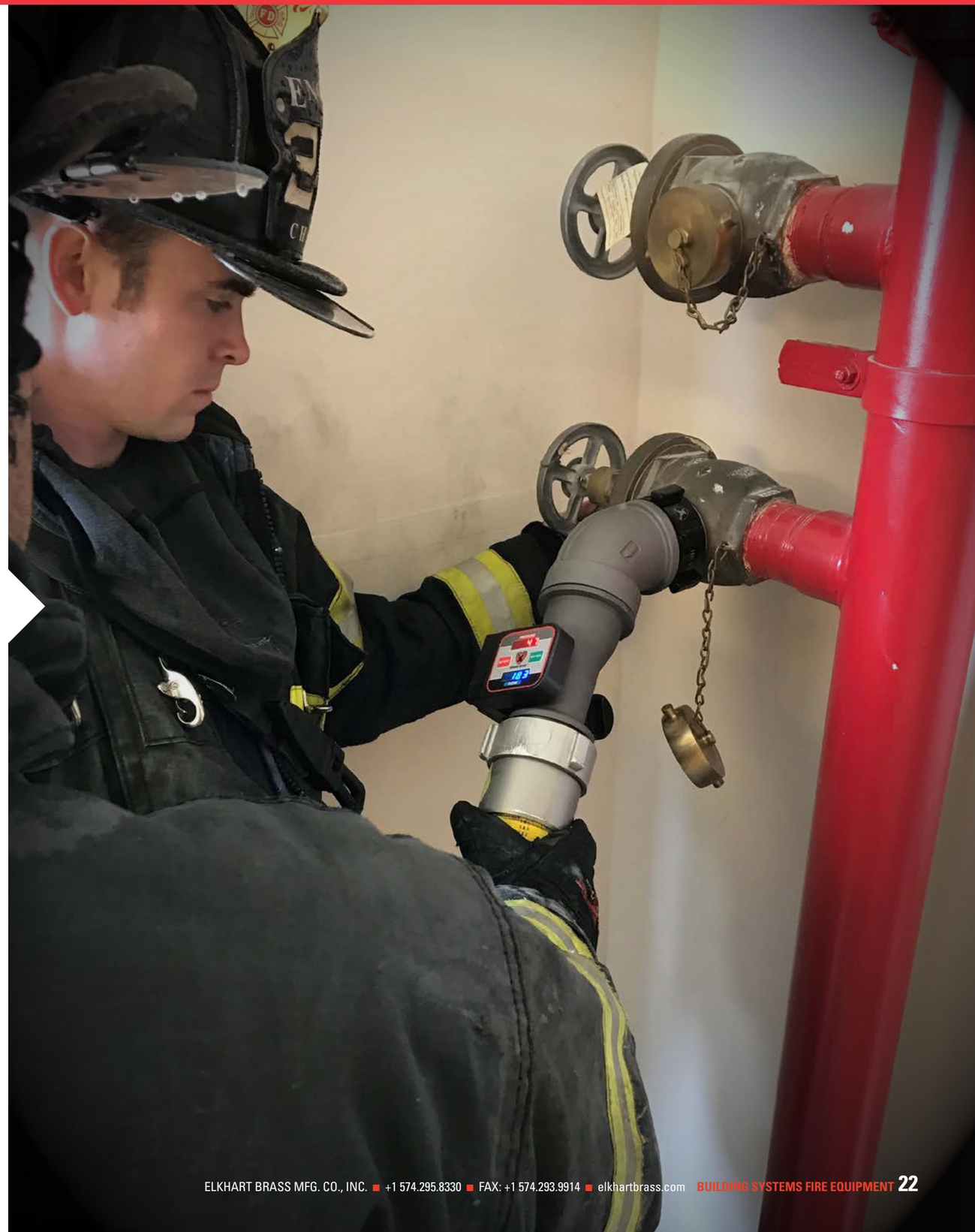
- 0-200 psi (0-14 BAR) fully guarded, shock resistant air-filled gauge
- Phosphorescent gauge face assists viewing in low light conditions
- Protective gauge face cover included
- Lightweight cast aluminum
- Free swivel inlet allow movement
- 2.5" female swivel inlet x 2.5" male outlet

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.

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.

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.

SAFE FLEET

Driving Safety Forward™

SCHOOL BUS · TRANSIT · LAW ENFORCEMENT & MILITARY · FIRE & EMS · WORK TRUCKS · TRUCK & TRAILER · WASTE & RECYCLING · CONSTRUCTION

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.

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

ELKHART BRASS KNOWLEDGE DROP

09-20-2023

Copyright ©2023 Safe Fleet and its subsidiaries. All rights reserved. No part of this publication may be reproduced by any means without written permission from Safe Fleet. The information in this publication is believed to be accurate. However, Safe Fleet does not make any representation or warranty to that effect and does not assume responsibility for any consequences resulting from use of such information. Revisions or new editions of the publication may be issued (or not issued) in our discretion to incorporate such changes.

+1 574-295-8330
elkhartbrass.com

SAFE FLEET
Driving Safety Forward™