



Nozzles & Tips

Installation, Operating, & Maintenance Instructions



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1-574-295-8330
www.elkhartbrass.com



ELKHART BRASS
FIRE FIGHTING EQUIPMENT A SAFE FLEET BRAND

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Product Safety Information

- All personnel who may be expected to use this equipment must be thoroughly trained in its safe and proper use. Appropriate personal protective equipment, including eye protection, should be used while working with this equipment.
- Before flowing water from this device, check that all personnel (fire service and civilian) are out of the stream path. Also, check to make sure stream direction will not cause avoidable property damage.
- Become thoroughly familiar with the hydraulic characteristics of this equipment, and the pumping system used to supply it. To produce effective fire streams, operating personnel must be properly trained.
- Open water valves supplying this equipment slowly so that piping & hoses fill slowly, thus preventing possible water hammer occurrence.
- After each use, and on a scheduled basis, inspect equipment per instructions in the Maintenance section.



Important: Before installing and operating provided equipment, read this manual thoroughly. Proper installation and understanding of the intended use of the Chief XD is essential to safe operation.

SYSTEM INFORMATION:

Nozzle or Tip (Type, Gallonage, Serial Numbers, Color, Date Received, Etc.):

Overview

The Chief XD series of handline nozzles and tips is of constant (fixed) gallonage design and available in 50, 75 and 100 psi flow rate options. The constant flow feature maintains the same flow rate throughout the stream pattern selection from straight stream to wide fog. The Chief XD series is rugged, simple and effective.

Features

Nozzle Shutoff –

The shutoff portion of the nozzle features a double drive, double stop forged metal bale handle for years of dependability and service. The full round metal valve ball creates a smooth unobstructed waterway to help deliver efficient and accurate flow. The valve ball seals against two hydraulically balanced self-lubricating seats which make operation easy and dependable. The shutoff inlet features a full time (free) swivel that allows the nozzle to be rotated without breaking the hose connecting and eliminating chance of injury by the operator. The shutoff body is constructed of forged metal for maximum strength. The metal pistol grip is designed for maximum grip with or without a gloved hand. The ergonomic inserts in both the pistol grip and bale handle can be color coded and provide additional grip while handling the nozzle. Laser etching for all markings on the shutoff provide years of identification.

Nozzle Tip –

The tip has a metal extruded or forged nozzle body for maximum strength. Stainless steel spinning teeth or urethane fixed teeth that will not break. If necessary, either teeth option can be easily removed and replaced. The ergonomic bumper, with 12 color options, protects and allows for easy rotation of the tip from straight stream to flush (counterclockwise) and from flush to straight stream (clockwise). Pattern adjustments are guided by cam slots or Acme threads for extreme reliability. When rotated (counterclockwise) past wide fog, the flush feature opens up the waterway and allow debris to pass without ever shutting down. Field changeable stem heads provide flexibility to the end user. Like the shutoff, all markings are laser etched for years of readability.

Nozzle Tip Only –

The tip only product has the same great features as the nozzle tip. It comes standard with a rigid base and can be paired with the XD Shutoff (see www.elkhartbrass.com for information on the XD Shutoff).



Installation Instructions

Prior to attaching the nozzle or tip, ensure that there is a gasket behind the inlet threads. This will assure that the nozzle or tip will not leak at the connection. Install the nozzle/tip by rotating the inlet clockwise onto hose coupling or other device threads. When the end of the male threads contact the gasket, tighten securely.

Operation Instructions

These instructions are written from the nozzle operator's perspective when positioned behind the nozzle.



SHUTOFF VALVE OPERATION

- TO CLOSE – push the bale handle forward towards the nozzle discharge as far as possible.
 - Always charge the hose line with the shutoff valve closed.
 - Always close the shutoff valve slowly when the nozzle is flowing water.
- TO OPEN — pull the bale handle back towards the nozzle inlet as far as possible.
 - Always be prepared to counteract the nozzle reaction before opening the shutoff valve when the nozzle is pressurized.

CHANGING STREAM PATTERNS

- STRAIGHT STREAM – grasp the hand grip (bumper) and turn the nozzle tip clockwise as far as possible.
- WIDE FOG - grasp the hand grip (bumper) and turn the nozzle tip counter clockwise until resistance is felt.
 - The wide fog position can only be felt when the nozzle is flowing water. When not flowing water turning the nozzle tip counter clockwise until resistance is felt will put the nozzle in the FLUSH position.
- NARROW FOG – the stream pattern can be adjusted by placing the nozzle tip anywhere in between the STRAIGHT STREAM and WIDE FOG positions described above.

FLUSH POSITION

- To place the nozzle in FLUSH position when flowing water place the nozzle in the WIDE FOG position and increase the force needed to continue turning the nozzle tip in the counter clockwise direction. Continue turning counter clockwise as far as possible.
- To place the nozzle in FLUSH position when not flowing water turn the nozzle tip counter clockwise as far as possible.
- Always place the nozzle back in the STRAIGHT STREAM position after flushing the nozzle.

Maintenance & Care Instructions

Care

The Chief XD series of nozzles and tips is designed to provide years of trouble free service. The nozzle should be treated with care and not be used as battering ram, sledge hammer, or forcible entry tool.

Weekly visual inspections and monthly operational checks should ensure excellent reliability. All nozzles and tips should be flow tested before entering any hazardous environment to ensure equipment is operating properly.

Preventive Maintenance

The following maintenance procedure should be followed after each use of the Chief XD nozzle or tip.

Chief XD Nozzle or Tip

- Remove from hoseline or other apparatus.
- Inspect the inside and outside of the nozzle for any debris or buildup. Remove any debris and flush inside with fresh clean water clean outside with mild soap & water using a soft cloth and/or soft bristle brush.
- Inspect the nozzle shutoff and remove any debris. OPEN/CLOSE the shutoff to ensure no debris is caught and flush with fresh clean water.
- Rotate tip through pattern positions to ensure it moves freely. If not working freely, remove tip, clean and re-grease cam slots or Acme threads. Reinstall.
- Rotate the swivel to ensure there is no binding in the joint. By design, the full time (free) swivel does not rotate without force, but check to make sure it will rotate. If binding, remove swivel and clean any debris from ball race. Reinstall.
- Check to make sure gasket inside swivel is not damaged. If so, replace.
- If nozzle or tip has spinning teeth, make sure they spin freely. If not, remove, clean and reinstall using mild soap & water with a soft cloth and/or soft bristle brush.
- Rinse complete nozzle or tip with “fresh” clean water and let dry prior to storing.

Warranty Information

The Chief XD series offers a 10 year limited warranty against defects in materials or workmanship.



Elkhart Brass Manufacturing Co., Inc.

1302 W. Beardsley Avenue Elkhart, IN 46514

Tel. (574) 295-8330

Toll Free (800) 346-0250

Fax (574) 293-9914

www.elkhartbrass.com

Email: eb.info@safefleet.net

