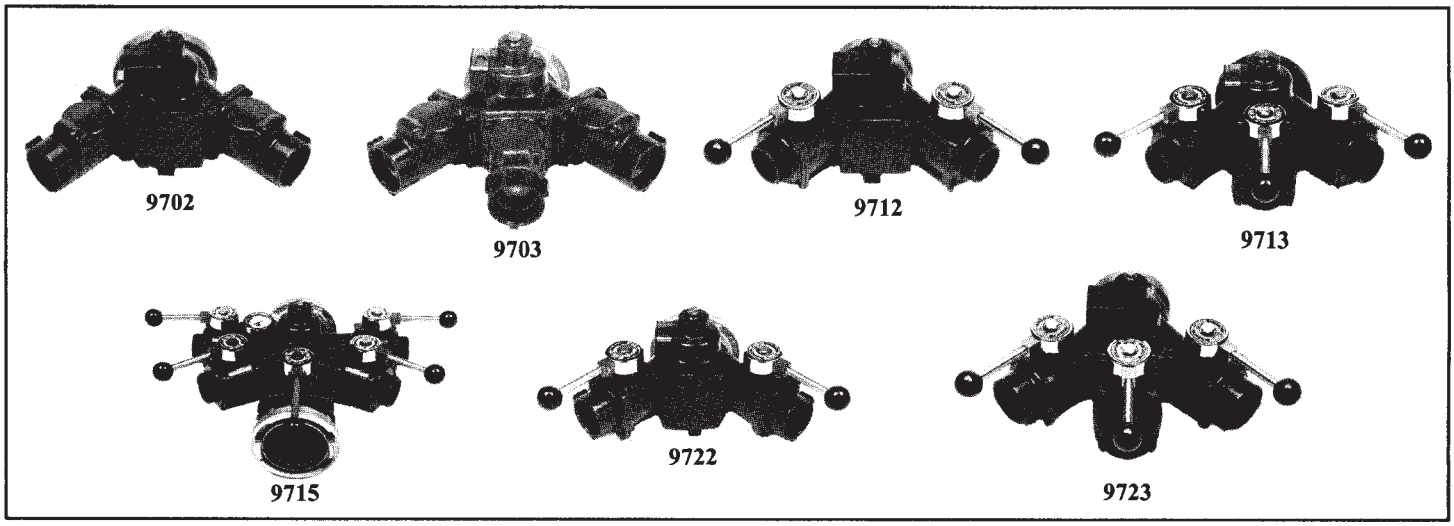
ELKHART BRASS
OPERATING & MAINTENANCE INSTRUCTIONS

THE 9700 SERIES OF LDH APPLIANCES

These instructions are provided to allow safe and efficient use of this product.
All personnel expected to use this product should be trained with these recommended operating procedures.



FEATURES

These LDH appliances have been designed for maximum efficiency and years of trouble free service and are **made in the U.S.A.** They are constructed of **durable, lightweight Elk-o-lite**, with many outstanding and exclusive features. The models shown above are considered to be **ground appliances (not to be mounted directly on apparatus)**.

All male and female threaded connections are **hard anodized** for ease of coupling and long wear. The severe twisting motion, created while charging large diameter hose, can cause appliances with **rigid Storz fittings** to roll over or even uncouple. To prevent this, all **Storz inlet fittings** on Elkhart LDH appliances are **free-swiveling**.

Exclusive Hydro-Loc® ball valves are **self-locking** to prevent accidental shutdown. **Exclusive** full flow 2½" ball valves have **double seats** for positive flow control in either direction. The **modular design** of both the gated and the clappered valve assemblies provides for easy field **service**.

These LDH appliances are designed for **200 p.s.i. working pressure**. All units have a **relief valve**, adjustable from 50 to 250 p.s.i. (factory set at 125 p.s.i.). The 9702 and 9703 clappered siamese assemblies come **standard with a ¾" bleeder valve**. This bleeder valve is **optional** on the **gated valve assemblies**. All LDH appliances are finished with a red acrylic/urethane enamel with hard anodized trim.

OPERATING LDH BALL VALVES

When used with a large diameter hose, these appliances are capable of controlling large volumes of water. However, extreme caution should be used when operating the quarter-turn valves. The valves should be opened slowly to prevent sudden unmanageable water flow. Also, valves should be closed slowly to prevent water hammer and possible serious equipment damage or personal injury. The Hydro-Loc feature prevents accidental shut-down when valves are partially gatted.

Even though the Storz fittings on these appliances may be connected ithout tools, it is recommended that the proper LDH wrenches be used to secure these couplings.

Under normal operating conditions, properly adjusted LDH relief valves may open and close frequently.

MAINTENANCE AND CARE

These LDH appliances are a vital link in the water supply chain. To insure continued trouble free service, they should be treated with care. These are "ground appliances", usually hand-carried from the apparatus to the fire ground location. They are rather heavy and awkward, so reasonable care should be tasken when handling and placing the unit in service. When attaching to hose, always use the proper coupling wrenches.

Visual inspections after each use and monthly operational checks should insure long-term reliability. Daily inspections are recommended for busy engine companies.

If a ball valve becomes hard to operate, check for debris or obstructions. A thin film of a silicone based lubricant (Dow-Corning #7 or equivalent) applied to the ball surface will keep the valve working smoothly. A similar application to the gasket surface of a Storz fitting will aid in securing the coupling. Lubricate sparingly, excess grease will attract dirt and grit and could create problems.

With a minimum amount of care, your LDH applicance will give you years of excellent service. If you have any further questions pertaining to this product, please feel free to contact Elkhart Brass at any time.

EB-98075

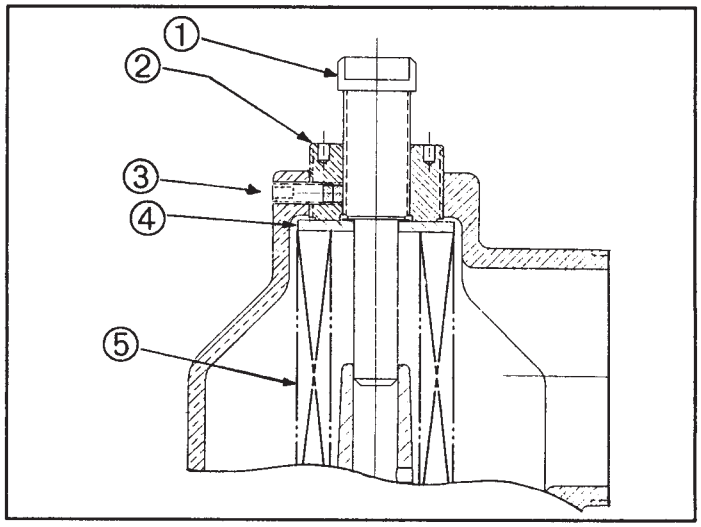
LDH RELIEF VALVE
ADJUSTING INSTRUCTIONS

The pressure relief valve has been factory set to open at **125 p.s.i.** This pre-set pressure may be altered by turning the adjusting screw to increase or decrease the opening pressure. **Consult the drawing and the chart to the right for the proper procedure.**

1. Before attempting to turn the **adjusting screw** (item #1), release the **locking screw** (item #3) **one turn only** in the counter-clockwise direction, using a 1/8" hex (Allen) wrench. **Note:** Do not attempt to turn the **adjustment bushing** (item #2). This bushing is factory set and should not be moved.
2. Turn the adjusting screw (item #1) **clockwise to increase** the opening pressure and **counter-clockwise to decrease** the opening pressure. A ½" open-end or adjustable wrench will be needed for this. Factory setting is already 2 full clockwise turns from zero. "Zero" setting is achieved when shoulder of **adjusting screw** (item#1) contacts **compression washer** (item #4) with no tension on **spring** (item #5).
3. When pressure adjustment is achieved, tighten the lock screw (item #3) snuggly **(do not over tighten)** by turning it in the clockwise direction with the 1/8" hex wrench. This will lock the adjusting screw at the desired pressure relief setting.

Factory Setting ▼

No. of 360° Turns From Zero	0	1	2	3	4	5	6	7	8	9	FULLY DOWN
Opening Pressure (PSIG)	75	100	125	150	170	190	210	230	250	270	280



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