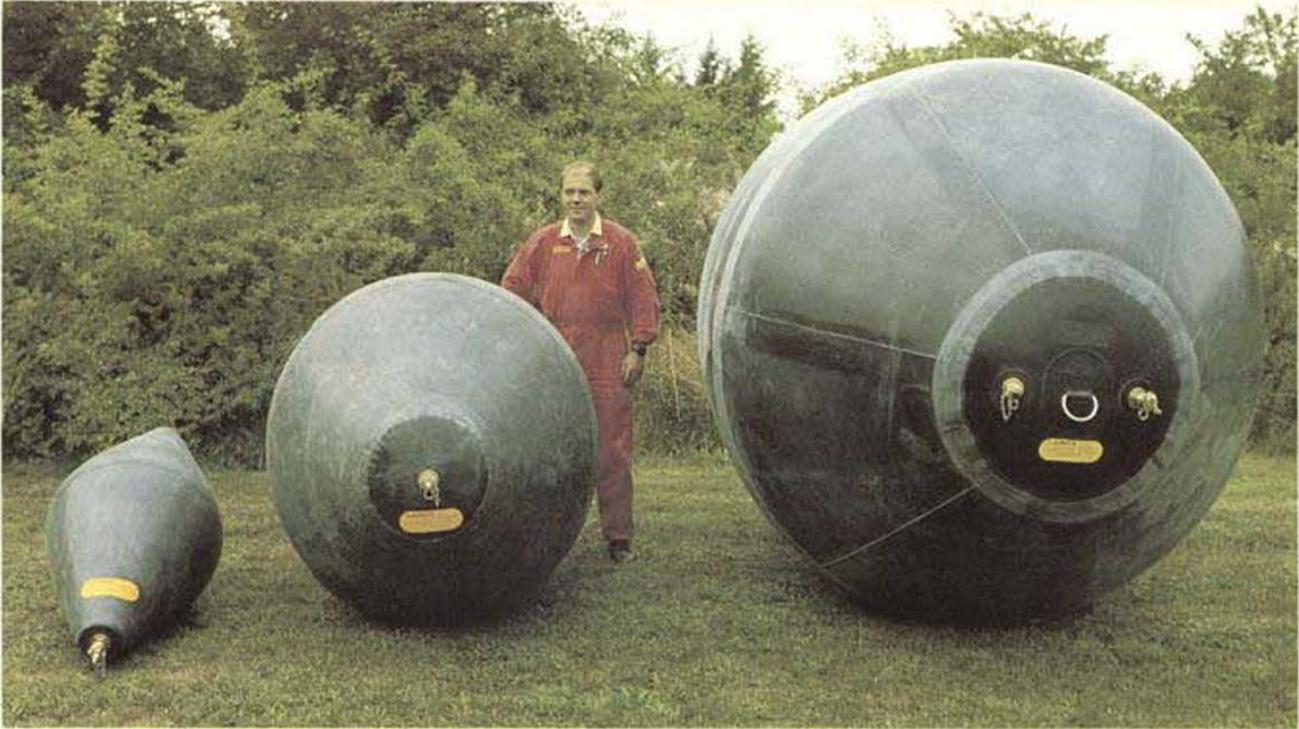


INFLATABLE PLUGS

from LAMPE



THE WORLDS FINEST PLUGGING SYSTEM

LAMPE Plugs are manufactured from a unique non-stretch material consisting of high tensile **Kevlar** matting imbedded in **Neoprene**. Some of the unique advantages of our system are:

- ❶ The LAMPE Plugs will conform to **any shape**. They will plug **rectangular, oval** and **square** pipes just as easily as **round** ones. They can be used in all pipe materials.
- ❷ Unique “**one-size-fits-all**” feature is due to the **double cone design** of the Plugs. Each Plug has a tremendous size range.
- ❸ The Plugs are **lightweight** and **compact**. Insertion through narrow shafts or manholes is easily accomplished.
- ❹ LAMPE Plugs are available up to **110” diameter**.
- ❺ **Neoprene** construction ensures excellent holding power and good chemical resistance.
- ❻ The LAMPE Plugs will hold line pressures of up to **7.5 PSI** or **16.5 feet** of water head.
- ❼ Plugs are available with **special seal** material and **flow-through** configuration for line testing.
- ❽ In case of accidental puncture, the LAMPE Plugs can easily be repaired.

AVAILABLE FROM ZUMRO CALL 1/800-932-6003 FOR MORE INFORMATION

PRESSURE REDUCER
PART #1412 or #4500

CHEMICAL RESISTANT HOSE, 16 FEET.
PART #1528 Connects Plug to Fill Controller.

FILL CONTROLLER

PART #1427
Includes Pressure Gauge,
Inflation/Deflation Control,
and Safety Relief Valve
preset at 14.5 PSI.

Connection for additional
Fill Controllers (shown with
rubber cap).

MONITOR HOSE

PART #6911 Indicates
back pressure behind Plug.

VENTILATION HOSE

PART #6913 (NOT SHOWN)
Used behind the Plug to
purge trapped air.

**MODEL 2 PLUG with
FLOW-THROUGH option**
PART #6345

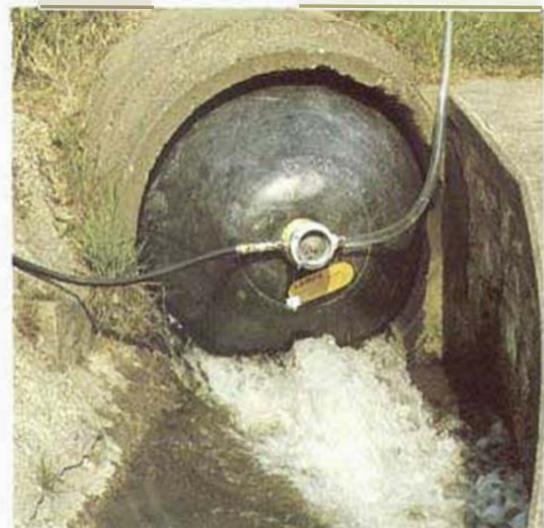
Capped Flow-Through
Connection.



The LAMPE Plugging System is simple and safe to operate. The picture above shows a Model 2 with flow-through option. In this application it is used with an air bottle. The Pressure Reducer is set to a maximum of 150 PSI and then connected to the intake coupling on the Fill Controller. This Controller is used to inflate and deflate the Plug. A protected pressure gauge monitors the air pressure in the Plug. The Controller has a preset safety relief valve. The Plugs must be inflated with this Controller. The clear hose indicates the pressure behind the Plug in "liquid height". It is also possible to use this hose connection to pump liquids or air to the other side of the Plug for line testing purposes. Behind the Plug a Ventilation Hose is used to purge the trapped air in the pipe line.

For line testing, the LAMPE Plugs can be ordered with a special closed cell seal material bonded to the outside. This ensures a gastight fit up to 5 PSI, and a watertight fit up to 7.5 PSI back pressure.

The picture on the right shows how a pipe line is drained by slowly reducing the internal pressure in the Plug. This is only possible if the back pressure does not exceed 5 feet of water head.





The Picture on the left shows a Model 1 Plug perfectly fitted into a square pipe. The LAMPE Plugs will conform to any pipe shape which is a unique advantage of the LAMPE Plugging System.

NOTE: To select the correct Plug for use in special pipe shapes, measure the maximum diameter of the Pipe. Then use the Specification list on the back of this brochure to select the Plug Model to cover that dimension.

Quick Air relief Valve.

Quarter turn disconnect. Also used to connect High Volume Hose.

Closed Male Air Coupling.

After inflating the Plug it may be disconnected from the Fill Hose.

Rope Attachment Ring.

For positioning Plugs. Models #2 and up have rings on both sides of the Plug.

Plug System Accessories

Fill Controller Part #1427: The Fill Controller is used to inflate and deflate the Plugs. It has a preset safety relief valve. It also has a pressure monitoring gauge. The Fill Controller must be used to safely inflate the LAMPE Plugs. The maximum allowable input pressure is 150 PSI.

Fill Hose Part #1528: This 16 Foot hose connects the Plug to the Fill Controller. Other lengths are available upon request. (Part #6155: 25 Feet / Part #1525: 32 Feet).

High Volume Fill Controller Part #1474: This Controller reduces inflation time. Models 5 and 6 must be inflated with this Controller.

High Volume Hose Part #1541: For use with High Volume Controller Part #1474.

Pressure Reducer Part #4500 or #1412: Reduces bottle pressure. Adjustable from 0 to 150 PSI. Specify #4500 when using a 4500 PSI air bottle and #1412 when using a 2216 PSI air bottle.

Air Coupling Part #2176: When inflating the Plugs with a compressor (150 PSI Max.), this coupling can be used to connect the compressor hose to the LAMPE Fill Controllers. The Coupling has 3/8" female NPT thread.

Monitor Hose Part #6911: This clear hose can be used with Flow-Through-Plugs to monitor the pressure behind the Plug. The liquid height in the hose indicates the pressure in the pipe line.

Automatic Fill Controller Part #1425: This Fill Controller can be preset to a Plug pressure from 0 to 14.5 PSI. Connected to an air source (150 PSI Max.), this Controller will maintain the pressure in the Plug at the preset level, very usefull when pipe lines need to be plugged for extended periods.

VentilationH ose Part #6913: This hose must be used with Flow-Through-Plugs. The 3 Inch diameter hose has a floating end. The Hose purges trapped air behind the plug.

Carrying Case Part #1613: Universal carrying case. size: 27" x 16" x 10".



MODELS 1, 2, 3 AND 4 SHOWN INFLATED AND FOLDED FOR STORAGE.

SPECIFICATIONS

	<u>MODEL 1</u>	<u>MODEL 2</u>	<u>MODEL 2.2</u>	<u>MODEL 3</u>	<u>MODEL 4</u>	<u>MODEL 5</u>	<u>MODEL 6</u>	<u>MODEL 7</u>
SIZE RANGE	4" - 16"	8" - 24"	12" - 30"	18" - 40"	20" - 51"	40" - 63"	45" - 86"	60" - 110"
WEIGHT	3.5 Lbs.	10 Lbs.	18 Lbs.	21 Lbs.	29 Lbs.	96 Lbs.	125 Lbs.	165 Lbs.
INSERTION SPACE	3.5"	8"	10"	10"	14"	18"	24"	36"
STORED SIZE (LxWxH in Inches)	8x8x4	15x12x12	15x15x12	24x15x10	30x20x10	32x24x20	41x27x23	44x36x30
PART #	6144	6145	6126	6146	6141	6151	6161	6171
-with seal	6244	6245	6127	6246	6241	6251	6261	6271
-with flow through	--	6345	6128	6346	6341	--	--	--
-with both	6444	6445	6129	6446	6441	6451	6461	--

OPERATING PRESSURE: 14.5 PSI Max.

ALLOWABLE BACK PRESSURE: 7.5 PSI or 16.5 feet of water head. Actual pipe condition will affect plug performance. Data are based on average conditions. ZUMRO, Inc. or its dealers shall not be held responsible for proper use of the plugs. Plugs should only be used by experienced, qualified operators.

NOTES: Models 5, 6 and 7 are special order items. Please allow extra time for delivery. When ordered with "Special Seal", the minimum diameter for Models 1, 2 and 2.2 is increase by 2". Stored dimensions do not apply to Plugs with "Flow Through" feature.

WARNING: *DO NOT* use if failure will result in bodily harm and/or property damage. *DO NOT* stand in front of, or near a plug when in use. Plugs must always be fully inserted into pipe. *ALWAYS* monitor internal air pressure and back pressure. Use with LAMPE accessories only.

The LAMPE Plugging System is distributed in North America exclusively by:

AUTHORIZED DEALER:

