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# Description and Operation Instructions:

## Foam liquid inductor
## Z2 – Z4 – Z8, self priming DIN 14384

**....without foam everything stops.**

Inductors feed liquid extinguishing medium additives in a variable mixing ration into a hoseline.

The inductor is at that time connected into the hoseline between pump and foam pipe.

**Operational characteristics:**

Through the injector effect, most of the water, which passes through the suction chamber at high velocity, creates a negative pressure which draws in the foam liquid. The residual water, whose quantity depends on the difference between inlet- and outlet pressure, passes via a strainer through the automatic control valve. In this way, the max. pressure loss of 38 % required by the standard is maintained in the inductor.

**Application:**

The Z2, Z4 and Z8 inductors are exactly matched to our foam pipe types S2, S4, S8 and M2, M4, M8 to DIN 14366 as well as to our changeover foam pipe types M2/S2 an M4/S4. With these you can be sure that the necessary water flow rates of 200, 400 or 800 ltr/min are achieved at 5 bar.

The operation of the inductor is guaranteed in every position.

The proportioning valve allows a variable admixture of 0 – 6 %. An accurately proportioned admixture is only guaranteed when the foam liquid suction head does not exceed 2 m. Also, the 20 mm dia. suction hose should be shorter than 5 m.

A non-return ball at the suction inlet prevents the ingress of water into the foam line when the foam pipe is closed and the proportioning valve is open. The suction capacity of the inductors depends on the pressure loss in the line between inductor outlet and foam pipe inlet. This pressure loss should not exceed approx. 3 bar with 10 bar at the inductor inlet. However, if inlet pressures are still higher, a pressure loss of over 3 bar is possible in the line. The pressure up-stream of the inductor should be approx. 7.5 to 12 bar.

**Technical data** (in accordance with DIN 14384)

| Type Ident.-No. | Flow rate (ltr/min) 5 bar | Admixture ration | Dimensions | | | Weight (kg) | Connection size |
|---|---|---|---|---|---|---|---|
| | | | L | W | H | | |
| Z2 | 200 | 0 – 6 % | 356 | 135 | 152 | 2.150 | C |
| Z4 | 400 | 0 – 6 % | 365 | 165 | 175 | 4,000 | Storz 45 |
| Z4 | 400 | 0 – 6 % | 362 | 135 | 152 | 2.300 | B |
| Z8 | 800 | 0 – 6 % | 362 | 135 | 152 | 2.300 | B |

**Materials:**

Body Polyoxymethylen (POM). Strainer in stainless steel, pipe and couplings in aluminium alloys, collector nozzle in polyamide, diaphragm in Viton.

# Foam Nozzles
# S2, S4, S8

DIN 14493 defines heavy foam as a 4 to 20-factor expansion ratio of a water/air/foam agent mixture, depending on the foam agent used.
In this range of expansion ratios, it is possible to achieve large throw distances, while the high proportion
of water also produces more effective cooling than with medium foam.

AWG heavy foam nozzles for mobile applications in conjunction with Z2, Z4 and Z8 foam inductors operate according to the injection principle. They are equipped with a motive nozzle and large air intake openings.

The selection of materials ensures a high resistance to corrosion. We recommend an operating pressure of 5 bar at the foam nozzle.

## Technical data

| | S2 | S4 | S4 – 45 | S8 |
|---|---|---|---|---|
| Ident-No. | 10052734 | 10053834 | 60460233 | 60278299 |
| Output (ltr/min) | 200 | 400 | 400 | 800 |
| Throw distance (m) | 23 | 26 | 26 | 36 |
| Foam coefficient | 15 | 15 | 15 | 15 |
| Dimensions (mm) | 755x186x98 | 860x200x126 | 860x200x126 | 975x202x126 |
| Weight (kg) | 2,3 | 3,5 | 3,5 | 4,3 |
| Connection | C | B | Storz 45 | B |

In addition to the versions listed above, our heavy foam nozzles are available with all international couplings as well as without coupling and/or shut-off.

## Materials:

Ball valve and motive nozzle made from aluminium alloy. Pipe made from stainless steel. Protection ring and handle made from rubber