Operating Instructions:
Dönges Extinguishing Lance

DÖNGES
FIRE & RESCUE

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On the following pages you will find important information about our products. Please study them carefully.

General information on the extinguishing lance

Nominal pressure	5 bar
Maximum pressure	10 bar
Water usage nominal pressure	~ 60 l/min
Water usage maximum pressure	~ 120 l/min
Material	VA2 stainless steel
Ball valve material	die-cast brass

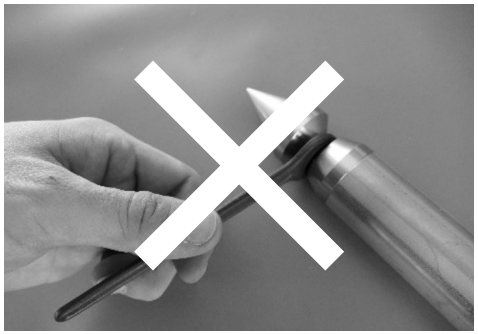
Initial set-up
To correctly set-up an extinguishing lance please proceed as follows:

Mount the required retractor (60°, 80°, 100°).

Place the retractor on the female thread of the outlet nozzle. Screw it in by hand carefully as far as it will go.

Screwing the tip into the female thread must go easily and without resistance. Only tighten the retractor by hand! Excessive tightening (e.g. by using an open-end spanner) will cause the special thread to chafe, resulting in irreparable damage to the extinguishing lance. Use the 15 mm open-end spanner only to open the retractor.

If you notice resistance when screwing in, do not use the open-end spanner to screw in the tip! Remove the tip and check both threads for impurities. Remove contamination with compressed air or fine cleaning cloth. Then screw the tip in again.



Once you have successfully fitted the retractor, the extinguishing lance is ready for the water connection!

Important
Before connecting the extinguishing lance, create an opening into the object to be extinguished. After the lance has penetrated the object, you can make the water connection.

To start up an extinguishing lance, connect an unpressurized hose line (2 inch diameter) to the extinguishing lance. Watch the hose-coupling is screwed in as far as it will go. Ensure the ball valve is closed before pressurizing the hose line.

The lance is now ready for use. You can start fighting the fire!

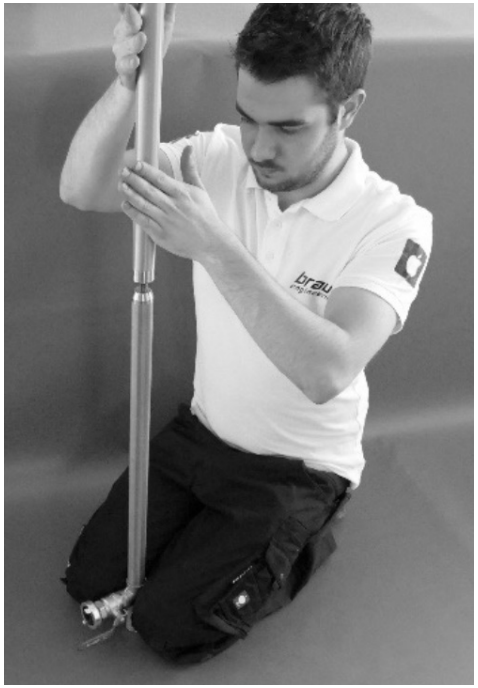
Use the extension
An optional extension is available to lengthen the extinguishing lance. To fit the extension, follow the steps below:

Remove the tip from an extinguishing lance. Fit the desired retractor (60°, 80°, 100°) to the extension. For this observe the instructions as listed above.

Clean any dirt from both the cone surface on the connection of the extension and on the extinguishing lance – this is important for the tightness of the system!

For easy and simple installation kneel on the floor and clamp the extinguishing lance between your legs with the outlet opening pointing upwards. Guide the extension from above to the extinguishing lance and carefully screw it into the outlet opening by hand. To scew it in more quickly, you can use a rolling motion with the palms of your hands.

Screw the extension onto the extinguishing lance by hand as far as it will go. Make sure not to tilt the thread. The extension must be able to be screwed into the female thread of the lance easily and without resistance.



If you notice resistance when screwing in, do not use the open-end spanner to screw in the extension!

Remove the extension and check both threads for impurities. Remove contamination with compressed air or fine cleaning cloth. Then screw in the extension again.

As soon as you have screwed in the extension by hand as far as it will go, place the extended extinguishing lance on the floor. Now use the 30 mm open-end spanner and carefully tighten the extension. Normally, a tightening of a few millimeters is sufficient to seal the system (usually 2 mm).

Proceed with caution when doing this, as excessive tightening will cause the special thread to chafe, resulting in irreparable damage. Once you have successfully fitted the extension, the system is ready for use.

CAUTION
Do not use extended extinguishing lances for prising open! This will damage the system!

Applications
Extinguishing lances are ideal for fighting structural fires and fires in enclosed objects, e.g.:

room fires, fires in false ceilings, attic fires, fires in half-timbered buildings, vehicle fires, container fires, rubbish fires, wood chip fires, pellet store fires, etc.

Approach to use
To optimise the use of an extinguishing lance, it is necessary to create an attack opening in the room to be extinguished. For light materials such as polystyrene, bricks or thin wood, it may be sufficient to knock in the extinguishing lance using its own weight.

As a rule, it is necessary to create a base opening with the special hammer and then insert the extinguishing lance into this. There is a solid impact attachment on the back of the extinguishing lance. Use the special hammer to drive through the lance.

Other possible tools are
Special hammer, fire axe, pickaroon axe, Hooligan tool, pointed hammer, pickaxe and many other pointed tools.

Tip
Optimum extinguishing effect will be achieved with several extinguishing lances used simultaneously and in parallel the fire room is sealed off from the fresh air supply.

Illustrated by the example of an attic fire: Use several extinguishing lances at different locations. These should be placed at least 10 metres apart in order to achieve optimum distribution of the water spray mist. It is advantageous, if extinguishing lances can work „from above“. When penetrating a door, you should create the attack opening in the upper third of the door. The same applies to all other fires.