

## Twin Fluid Nozzle Lances Examples of configuration

Lechler Twin Fluid Nozzle Lances of this type can be delivered with various spray positions of the nozzles. The compact construction allows easy mounting. The robust construction made from high quality stainless steel provides significant safe operation of the spray lance. Lechler Twin Fluid Nozzle Lances are delivered as a complete spray unit. All components are designed to exactly match each other. This ensures minimum down time when installing and connecting.

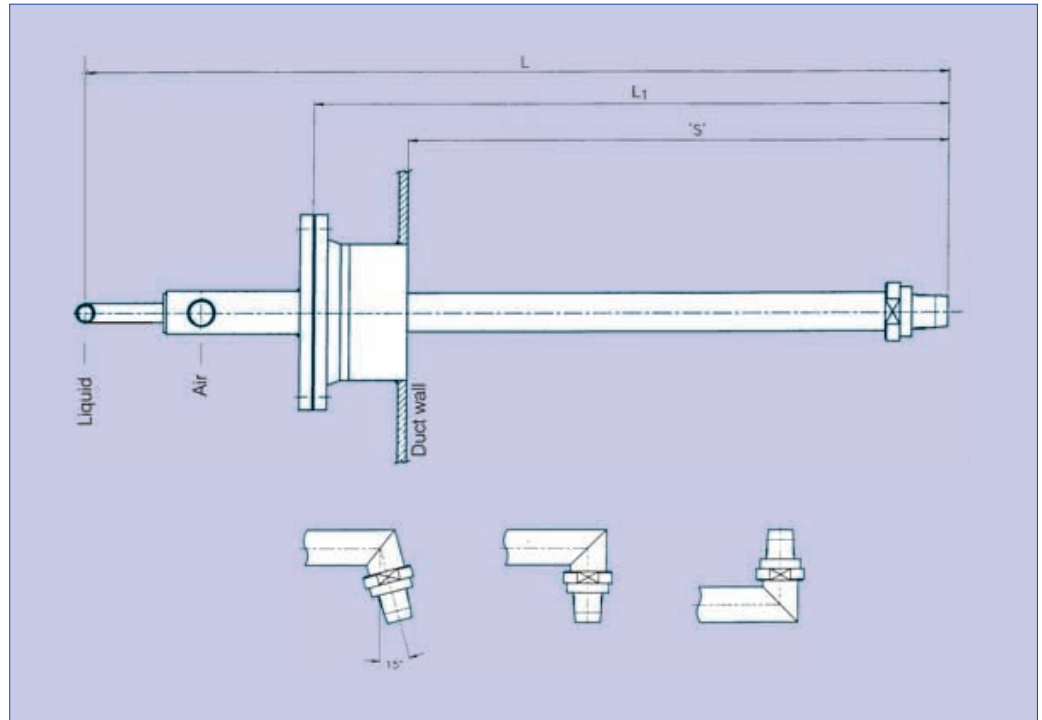
### Advantages:

- Compact construction
- Robust design
- Maintenance friendly construction
- Functional and safe operation

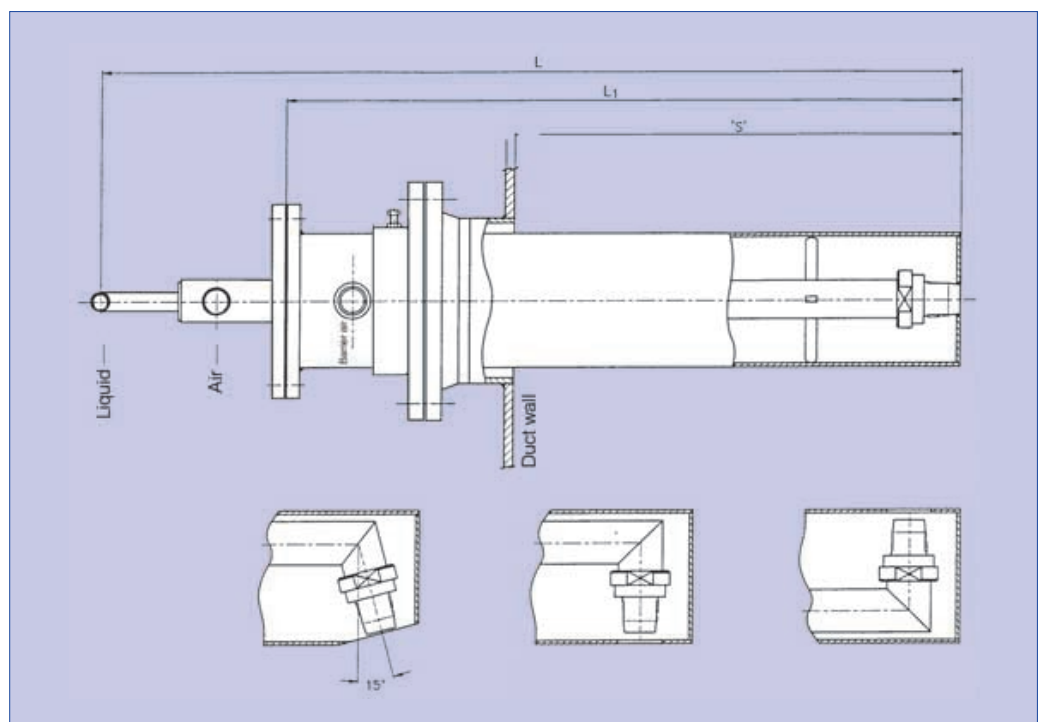
The Twin Fluid Nozzle Lance, as shown, is a version with a big shield (for instance made from Hastelloy C), barrier air and purge air. This construction is especially suitable for higher gas temperatures and aggressive gases. Twin Fluid Nozzle Lances with heat shield piping can easily be mounted/dismounted with the minimum of effort. Thanks to the variable installation depth the spray position is changable and can be adapted to changing process parameters without problem.

### Advantages:

- Robust design
- Maintenance friendly design
- Functional and safe operation for variable installation depth



Twin Fluid Nozzle Lance



Twin Fluid Nozzle Lance with big shield and barrier air

## Twin Fluid Nozzle Lances Examples of configuration

The nozzle lance illustrated is designed with a **compact** shield. This shield reduces the flow resistance in the gas duct compared with the lance itself. At high gas velocity in particular, this results in an improved process result. The air barrier protects the nozzle from clogging and protects the interior nozzle lance against corrosion and overheating. The conical design of the front barrier air cap effectively ensures that the nozzle is evenly surrounded by an air barrier. This guarantees reliable, low-maintenance operation. The front barrier air cap can be quickly dismantled in order to inspect the nozzle.

### Advantages:

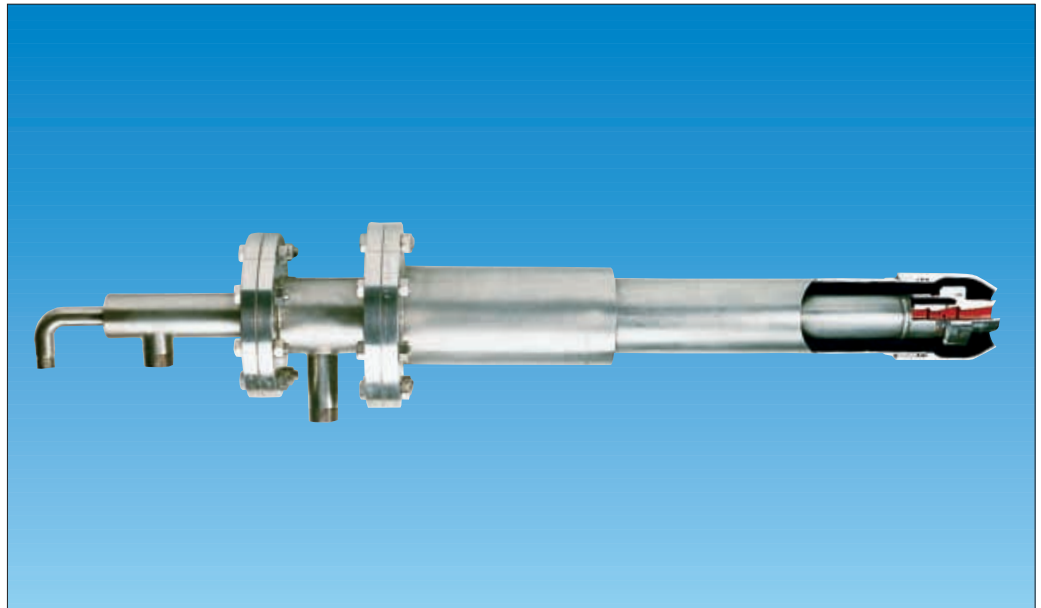
- Robust and compact design
- High safety in operation

### Materials:

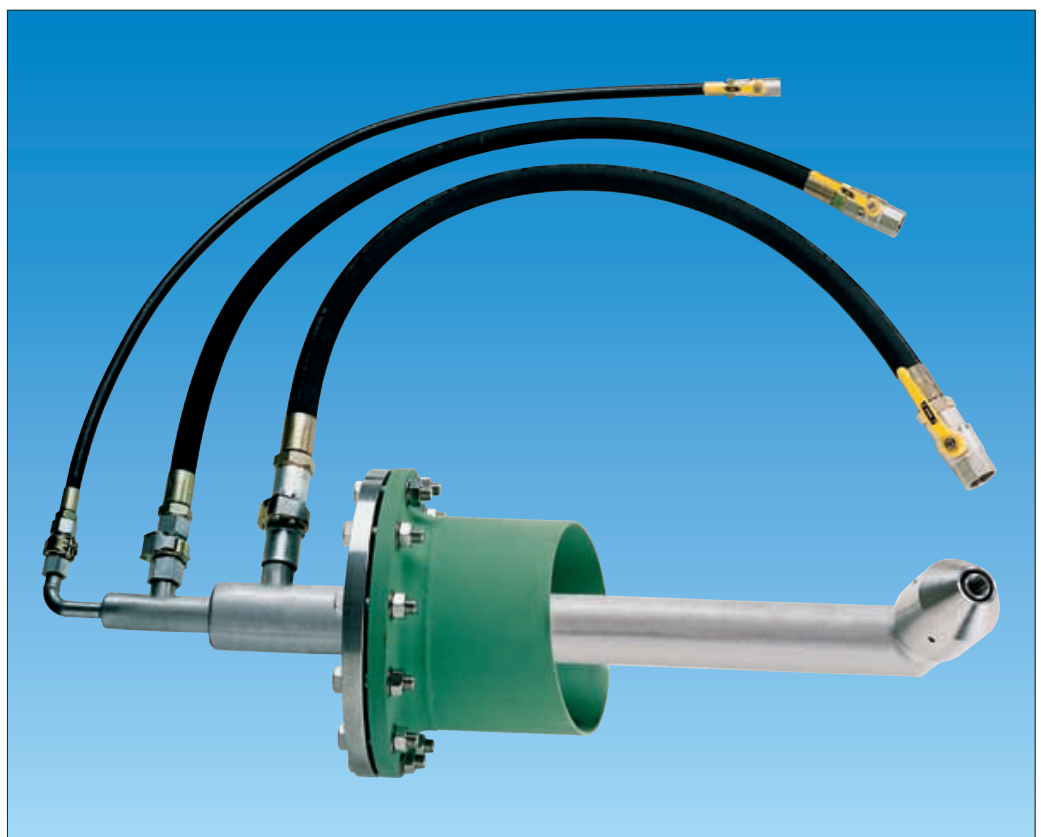
The standard material is stainless steel 316/1.4571. High alloy steels, such as chrome-nickel steels (Hastelloy) are also available for special processes. Lances made from plastic materials, such as PVC, PVDF, PTFE and temperature resistant FRP have proved to be highly efficient for some special applications.

### Standard delivery scope:

- Pressure resistant and flexible hoses
- Shut off valve
- Mounting devices, coupling devices
- Special accessories up to complete spraying systems including control units (see page 11).



Twin Fluid Nozzle Lance with small shield and barrier air (cut away model)



Twin Fluid Nozzle Lance with small shield and accessories