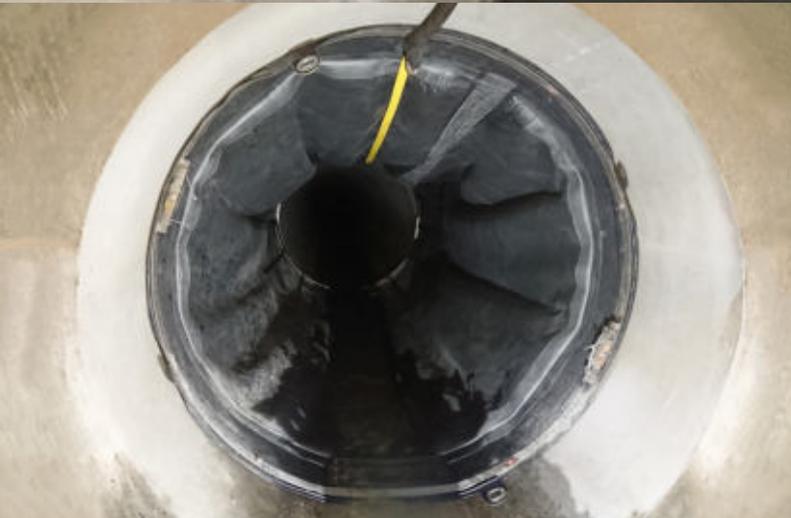


## Sewer shut-off system KAS



## Sewer shut-off system KAS: worldwide unique



### Sewer shut off system KAS for rainwater-, sewage- or mixed water ducts

The pneumatic alternative to mechanical gate valves.

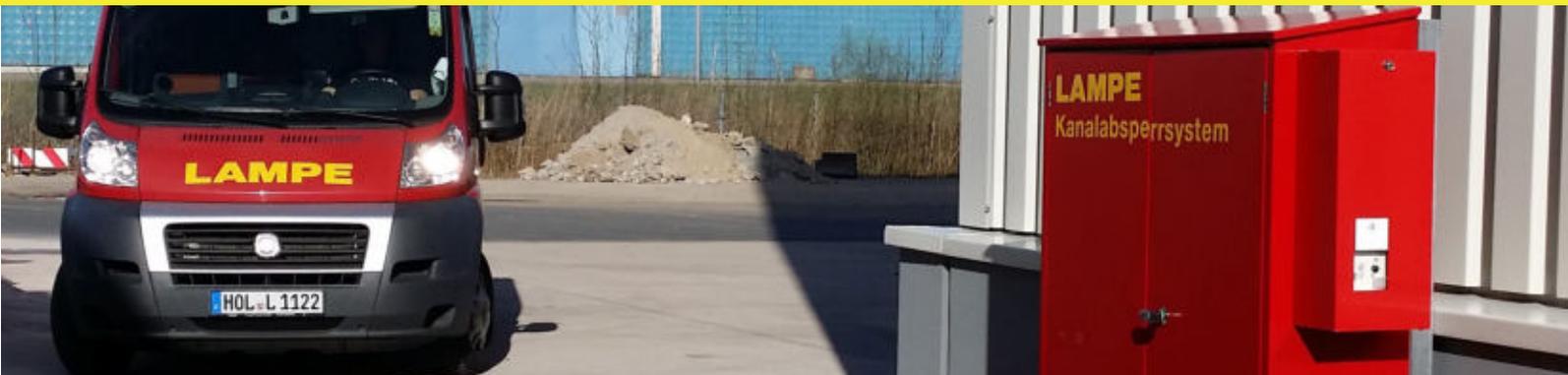
For reliable pipe shut-off in the case of environmental accidents or fires.  
Can be retrofitted without any problems in all pipe diameters from 150 to 1500 mm!

The unique advantages:

- Cost savings due to problem-free retrofit installation.
- No additional earthworks required for installation.
- Low costs for subsequent maintenance and servicing
- Debris foreign materials such as stones, branches, etc. do not impair operation.
- Easy to operate.
- No entering of sewer system for activation necessary: therefore also no conflict between occupational safety and a fast activation.
- Long-term, trouble-free operation over many years' time, a significant advantage over mechanical gate valves.



Our promise for you



## Inventor, Manufacturer and Supplier for over 70 years Everything from one provider!

More than a product is our promise!  
We provide you:

- Technical consulting and solution finding on site
- Detailed planning and organizational control of the necessary preliminary work
- **Operation training** - safe handling and occupational safety
- **On-site assembly** - we install our systems worldwide
- **Maintenance** - we take over the deadline monitoring of the annual maintenance for you
- **Individual tailor-made solutions**

Any further questions or requests?  
Then please do not hesitate to contact us.



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## Sewer shut-off system KAS: Our innovative solution



### LAMPE sewer shut-off system KAS: One system for many different environmental tasks.

Immediate and reliable protection of the company's own rainwater, mixed water and sewage ducts in case of environmental accidents, run out of chemicals or the subterranean extinguishing water retention, creates for many industrial companies a very important environmental protection problem.

The older rainwater ducts existing in many industrial companies are often directly discharged into the next brook or river. For example, in the case of a fire the contaminated extinguishing water is also directly discharged into the surface water, resulting in a bad contamination of the water.



Other risks may include leaking chemicals, petrol, heating oil, etc., which can flow out over a mixed water or waste water duct into the public mixed water or sewage networks. Such environmental accidents can cause major damages in wastewater treatment plants and their biology.

The often common installation of mechanical gate valves or shut-off dampers, in order to avoid public waters and sewage treatment plants from the risks described above quickly reaches its technical and economic limits and such mechanical solutions often require an additional construction in the manhole or cost-intensive earthworks.

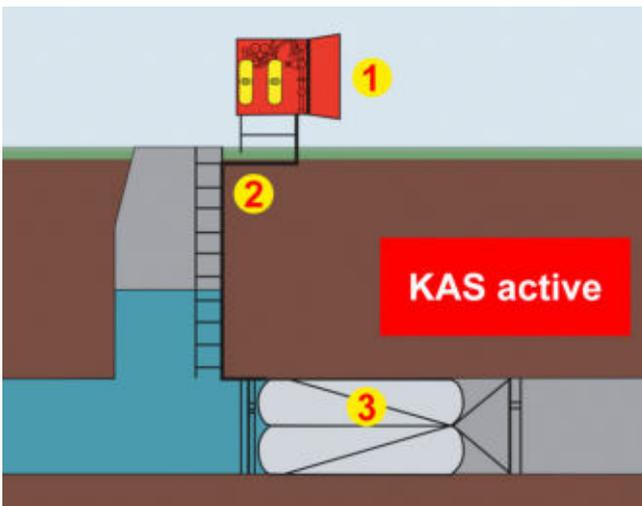
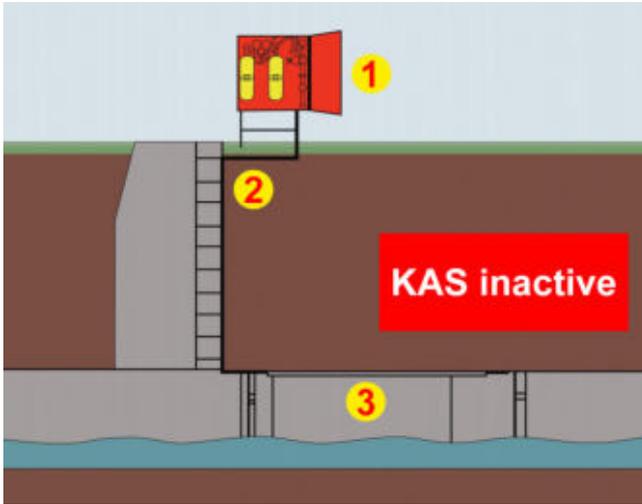
In contrast, the innovative KAS sewer shut-off system offers the possibility of reducing the costs of an effective safeguard instrument as low as possible.

The sewer shut-off system KAS is a pneumatic alternative to conventional gate valves and dampers made of stainless steel, which can be retrofitted without expensive earthworks without any problems in every existing rainwater, wastewater or mixed water ducts.

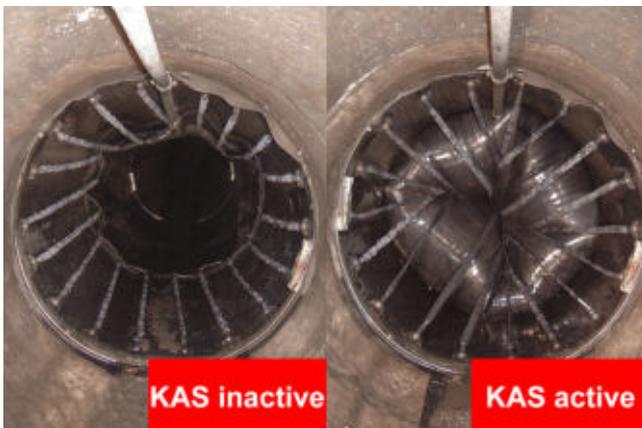


## Sewer shut-off system KAS: Schematic layout

### Operating principle:



### KAS basic device:



### Schematic layout:

#### 1. Air station

The air station is located on the surface in a sheet steel cabinet, approx. 3-4m next to the manhole. It contains the control unit and the compressed air reservoir.



#### 2. Filling hose

The filling hose connects the air station with the basic device in the pipe and guarantees the air supply.



#### 3. KAS basic device

The KAS basic device is a wide closed double hose, which after inflation to operating pressure closes the pipe. It is coated with neoprene and rot-proof.

#### 4. Remote triggering (optional)

The system can be optionally equipped with a remote triggering and can thus be activated very quickly in case of an emergency.



## Sewer shut-off system KAS: for pipe diameters 150 to 1.500 mm!

### The advantages of our sewer shut-off system KAS compared to mechanical solutions:

In principle, the sewer shut-off system KAS can be retrofitted to all rainwater, sewage and mixed water ducts from 150 to 1,500mm quickly and easily. In smaller diameters up to 500mm, the basic device is installed with the help of a stainless steel sleeve into the pipe over the manhole and attached to the manhole frame. In larger pipe diameters > 500mm, the basic device is installed with clamping rings and clamping straps directly in the pipe.

The design of the system makes it less susceptible to faults, because any dirt, sticks or stones will not cause the system unusable.

Also the follow-up costs for maintenance and servicing are very low due to the simple structure of the system.

In addition, the materials and components used allow a trouble-free use for many years. The basic unit, for example, consists of a special neoprene-coated fabric material, which is not subject to physical aging.

All systems are individually planned by us. We offer before the realization of a project an individual consultation and planning by us on site, in order to adapt all systems as best as possible to the given requirements on site.

The system works only pneumatically, resulting in no mechanical malfunctions.

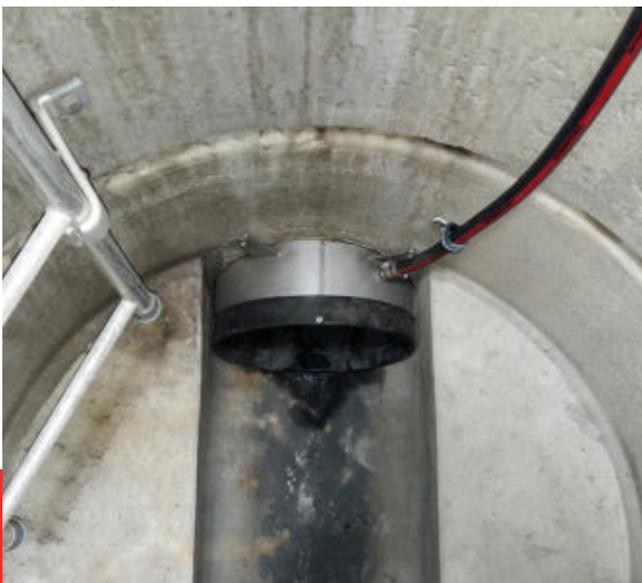


In contrast to „mobile solutions“, such as the installation of a pneumatically operated Sewer Sealing Cushions or a conventional pipe plug, the sewer shut-off system KAS offers the advantage that it does not lead to any conflict regarding valid working condition acts and a quick deployment, as neither the pipeline nor the manhole must be entered for the activation:

In Germany, for example, valid rules for work in enclosed areas of waste water technical systems are regulate that, when working in pipelines, manholes, or enclosed spaces with a depth of more than 1m always at least one second person above ground as security guard must be present!

In addition entering the sewer to install a Sewer Sealing Cushion or a pipe plug suitable safety devices against falls from a height (tripod, rescue harness, etc.) must be used. The atmosphere inside the canalisation must be measured from outside the manhole before entering the canalisation with the help of a gas warning device.

All of these activities require a lot of time, which you normally don't have in case of an emergency. Our sewer shut-off system KAS requires not all these activities and can be activated much faster!



## Sewer shut-off system KAS: customer references



### Satisfied customers are our advertisement!

Competence, Reliability, Quality and Individual problem solutions - our customers have trusted in this for decades.

An extract from our list of customers shows which customers already successfully use the KAS system for environmental protection.

AUDI AG, Ingolstadt

BASF Color Solutions Germany GmbH, Köln

Benteler AG, Paderborn

DURA Automotive Systems Einbeck GmbH, Einbeck

Dyckerhoff AG, Wiesbaden

EppsteinFOILS GmbH & Co. KG, Eppstein

Flughafen Köln-Bonn GmbH, Köln

Fred Stemmer GmbH, Hann.-Münden

MTU Maintenance Hannover GmbH, Hannover

RheinEnergie AG, Köln

RWE Power AG, Frechen

Schäfer Werke GmbH, Neunkirchen

Streck Transport GmbH, Freiburg und Lörrach

Vaillant Group, Remscheid

Veritas AG, Gelnhausen

Verlagsgesellschaft Madsack GmbH & Co. KG, Hannover

Volkswagen AG, Wolfsburg

Xella Deutschland GmbH, Duisburg

as well as many other customers all over Europe (like in Spain, Poland, Italy, Denmark, Netherlands, Switzerland, Austria, etc.)





# LAMPE

## Our Corporate Values

- We are reliable.
- We are customer-oriented.
- We are certified in accordance with EN ISO 9001:2015.
- We work in a transparent manner.
- We are the inventors. We innovate.
- We work in a clean and environment-friendly manner.
- Our products are sustainable.



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