

## Stop Silent Light – The check valve that is installed in the twinkling of an eye

Do you know the global innovation amongst the check valves? The traditional Swiss company Lasso Technik AG introduces the newly developed STOP SILENT LIGHT sewer backflow preventing valve. This valve sets new standards in terms of its record-breaking fast installation, and guarantees reliable backflow prevention.

Solve a problem within seconds! The Stop Silent Light sewer backflow preventing valve can be installed into already existing sewer lines or inspection shafts: Reliable back flow prevention guaranteed! The smoothly working rubber membrane is the only moving part.

Available in different sizes, the Swiss made Stop Silent Light check valve is designed for a back pressure up to 0.5bar. This valve stands out through simple and timesaving installation.

Besides the backflow preventing function of the valve, Stop Silent Light furthermore serves as a flap-gate, preventing small animals from entering into pipe systems.

A third function that gives the valve a competitive advantage is the airtight odor barrier, preventing channel gases from flowing back into premises.



Installed within seconds: The valve is inserted into the pipe, and fixed with the innovative expander clip...



...and is barely visible after installation.

### Stop Silent Light at a glance

- Reliable Backflow Prevention
- Airtight Odor Barrier
- First-Class Flap Gate
- Suitable for Storm- and Faecal Water
- Designed for Backpressure up to 7.25psi.
- Available in sizes 4, 4.3, 5 and 6 inches.



## Stop Silent Light – active backwater protection

**Flooded basements? Costly renovations of damaged rooms? No problem for households that protect their house with a Stop Silent Light check valve.**

### Emotional and Financial Damage

In addition to damages done to premises and furniture, it is the emotional stress that makes a water damage a high burden.

### Flooded basements in new building

Lupsingen, Switzerland. A quaint, town on the countryside. Here Family Hartmann decided to build their own family home.

However, the unfavourable location as the lowermost house of the road, caused two water penetrations in the basement floor within a short time.

Alone to dry the parquet floor of their basement, the family had

Fixing the damage and dehumidifying the parquet floor alone, forced family Hartmann to run a noisy drying machine for several weeks, what caused considerable noise exposure.

### Sewers at the capacity limit

Heavy rains, combined with an ever-increasing concrete surface, bring sewers to their capacity limit.

If this limit is reached, the water, looking for a way out, can be pushed back into the property. That's what happened at Hartmann family's house.

### Problem Solver Stop Silent Light

To avoid such unpleasant surprises, we highly recommend installing a Stop Silent Light check valve. In the case of Family Hartmann, Stop Silent Light was retrofitted and protects the family against future flooding.

Stop Silent Light is installed within seconds. Depending on the situation, the valve can be mounted in the inlet or outlet of the control shaft.

The soft membrane is highly resistant, low in maintenance and durable.



Flooded basement...



...preventable with a Stop Silent Light check valve.



## What to do when it smells from the Sewers

Sewer gases that pass through the canal system back into properties cause unpleasant odor nuisances. This issue can be permanently solved with a Stop Silent Light backflow prevention valve.

Steaming gullies on cold days, a common sight during the winter season. This steam is the so-called "channel gas" generated by waste water and the cause for unpleasant stench.

### Prevent Odor Nuisance!

This negative effect of the channel gases can be prevented with a Stop Silent Light backflow preventing valve. One main function of **Stop Silent Light** is the Odor Barrier. The Odor Barrier **guarantees an airtight shut sewer pipe, avoiding the stack-effect\***.

### Installed Within Seconds!

In addition to the low maintenance Odor Barrier, Stop Silent Light impresses with an unprecedented speed of assembly. See for yourself and **follow the link to our demonstration video:** <http://www.stopsilent.com/en/Stop-Silent-Light/>



*Stop Silent Light Backflow Preventing Valve*

\***Stack-Effect** describes channel gas that passes through manholes to the surface or penetrates properties.



*Stop Silent Light prior to installation*

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## How to keep vermin out of tube systems

**Small animals that invade tube systems, an annoying problem that is reliably and permanently solved with the new and innovative Stop Silent Light backflow preventing valve.**

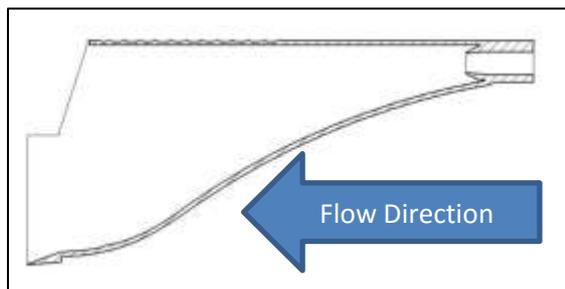
Small animals and vermin that penetrate water tubes can be a problem for the water quality, and can have unpleasant consequences for affected humans. **The Stop Silent Light flap gate prevents small animals from entering into tube systems, contributing to a flawless water quality.**

### Case Study: Bivio, Grison, Switzerland:

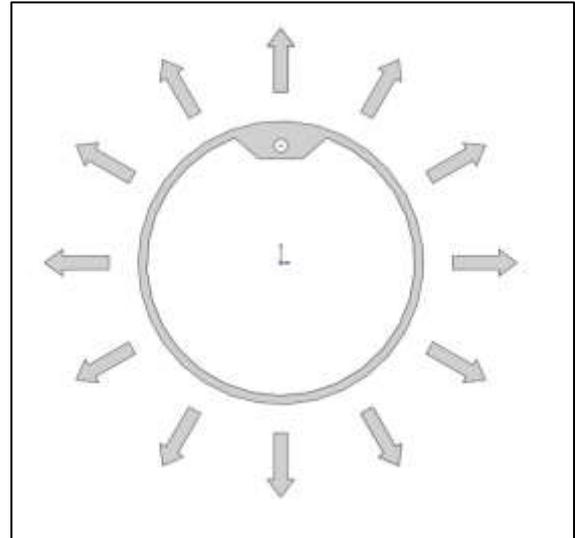
Bivio, a small town in the Swiss Alps, 6562 ft. above sea level. After launching a new water collector the water supply noticed, that amphibians and insects can infiltrate the system through the overfall. In order to solve this problem as fast as possible, Lasso Technik AG installed a Stop Silent Light Flap Gate. **Within few minutes the Stop Silent Light valves were installed and ready for use.**



Smooth installation in existing pipes: Stop Silent Light



Profile of the Stop Silent Light Rubber Membrane



Pressure distribution of the expander clip

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## Prior Installation: The Stop Silent Light Checklist

### 1.) Inside diameter

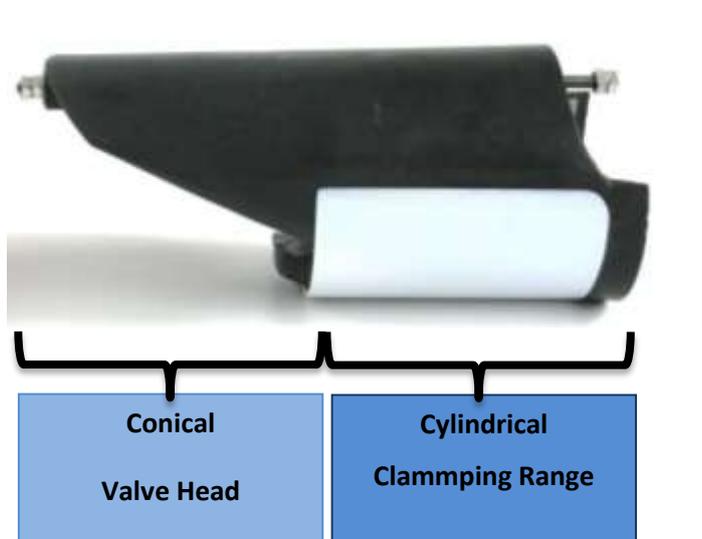
- a. In order to offer you the proper valve, we need to know the exact inner diameter of the pipe that needs to be protected.

Nominal Diameter (mm)/(in)	Clamping Range (mm)/(in)	Total Length (mm)/(in)	Length of conical valve head (mm)/in)	Allen key size (metric)
DN100/3.94	93-101/3.66-3.98	215/8.46	110/4.33	3
DN110/4.33	98-106/3.86-4.17	230/9.06	125/4.92	3
DN125/4.92	115-122/4.53-4.8	270/10.63	145/5.71	3
DN150/5.91	145-152/5.7-5.98	330/12.99	180/7.09	4
DN200/7.87	181-197/7.13-7.76	420/16.54	190/7.48	4

- Dimensions for bigger sizes on request.

### 2.) Access to the pipe

- a. Hand-moulded bay soles can be too tight and have to be adjusted.
- b. The length of the cylindrical clamping range is approx. 1x diameter. Also, the length of the conical valve head is approx. 1x diameter.





**3.) Minimum Slope to ensure smooth operation**

- a. 2% constant fall

**4.) Type of Medium?**

- a. Private- or industrial drain water
- b. Rain water

**5.) Installation in the entrance or exit?**

- a. If several pipes meet at the same manhole it must be ensured that the valve is mounted in the line which leads to the area that needs protection. In the case of backwater, securing only the exit to the sewer blocks the way for outgoing water.
- b. For small pipe diameters, soft soap/ soap water can be used to facilitate the insertion of the valve. **NO FAT, NO OILS!**

**6.) During long-lasting floods, the internal pipe system can absorb only a limited amount of water. Low water consumption is recommended.**