

KUGELHÄHNE
BALL VALVES



BÖHMER

NEW!

INJECTION
NOZZLES

**IDR
IDK**



IN COOPERATION WITH

WESTNETZ


innogy

 **DBI**

IDR INJECTION NOZZLE FOR PIPELINES

IDK INJECTION NOZZLE FOR BALL VALVES

LOWERS THE COSTS - RAISES THE SAFETY

Our newly developed injection nozzles increase efficiency and reliability of natural gas odorization

The performance of injection nozzles of conventional design decreases continuously during their utilization due to sedimentary deposition of the aggressive odorant and the additives in the gas



Clotted nozzles vapourise the odorant not sufficient anymore which leads to a higher consumption.

Also the stability of the conventional nozzles is impaired by its rigid design; they can break off in the worst case.

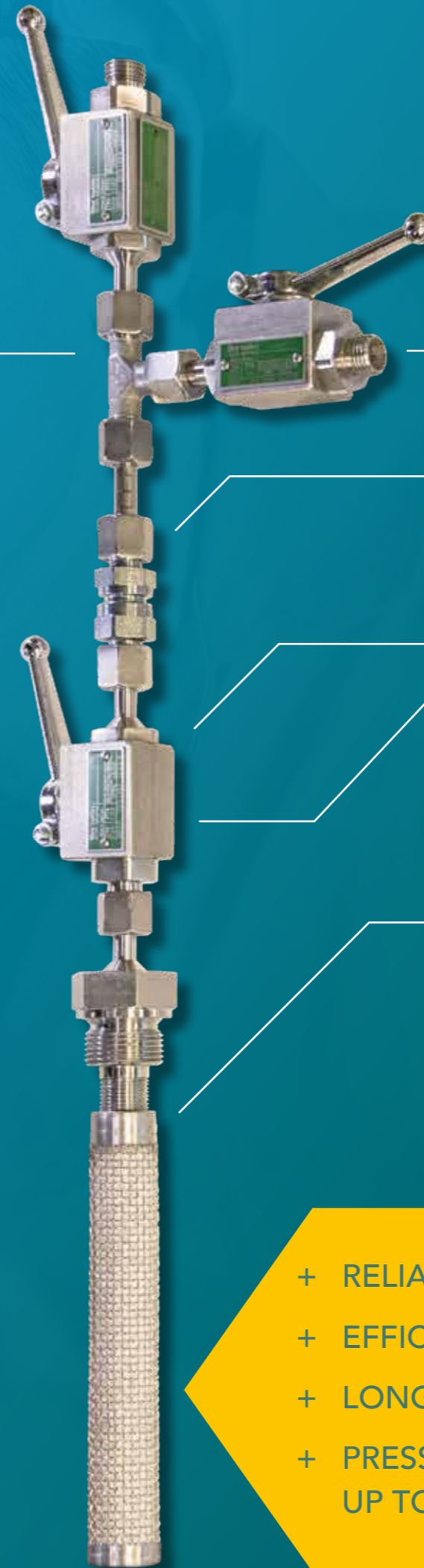
Conclusion: The design of a new injection nozzle is a challenge which is safety technical relevant and has economic potential as well.

This challenge has been mastered now! The new IDR and IDK injection nozzles are superior to any other design regarding efficiency and reliability. The solution came here in the pooling of the expertise of three enterprises:

- One of the biggest gas network operators in Germany, Westnetz GmbH, is the initiator of the project and enabled its realization with the help of its experienced design engineers and their expertise.
- Ball valves made by Böhmer are well known for their reliability and long service life. These features also distinguish the newly developed injection nozzles IDR und IDK now. According to the guidelines of the DVGW (German gas and Water association) they are designed applying stainless steel pipes and valves and especially resistant FFKM sealings
- The DBI Gas- und Umwelttechnik GmbH is a specialist in handling gases and gas additives. For the injection nozzle they developed a new vaporizer design.

A VISIBLE ADVANTAGE

Together with the injection nozzle exchange unit (OWE) the injection nozzle is a perfect team. **At the OWE the nozzle is installed directly in the ball valve and can be visually inspected without taking it out.** Inspections become easier and simpler and the effort for personnel and parts are reduced substantially.



Flushing connection

The integrated flushing connection is a special design feature with two functions:

1. **Decrease of risk** – the connection prevents the direct contact with the odorant.
2. **Decontamination** – by flushing the complete valve chain will be cleaned. This also considerably reduces unpleasant odors in the environment of the facility.

Check valve

The check valve prevents the reflux of the medium.

Ball valves and pipes

The complete unit was designed for use with sulfur containing as well with sulfur free odorants. The application of stainless steel for all parts in contact with the medium and the application of special FFKM sealings make the new injection nozzle corrosion resistant and long lasting.

Vaporizer

The newly developed vaporizer enables a constant release of the odorant and reduces built up of residues. The efficiency and service life of the injection nozzles is fundamentally increased by this design.

- + RELIABLE
- + EFFICIENT
- + LONG LASTING
- + PRESSURE TIGHT UP TO 100 BAR

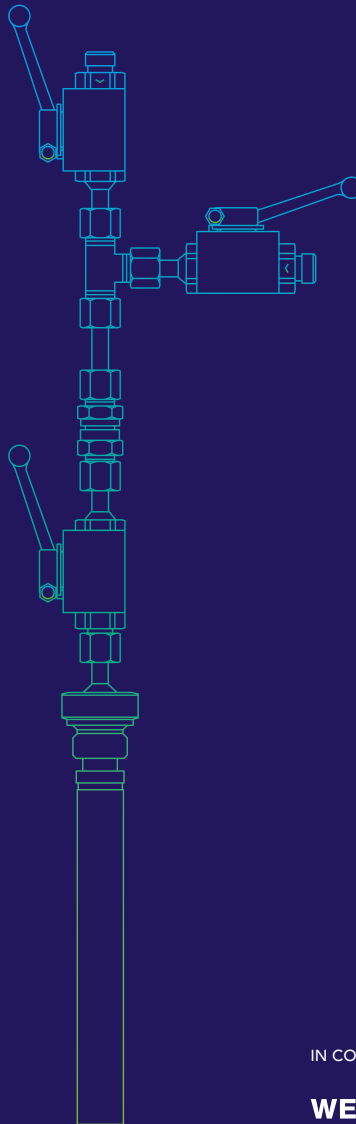
UP TO
20%
LESS ODORANT

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