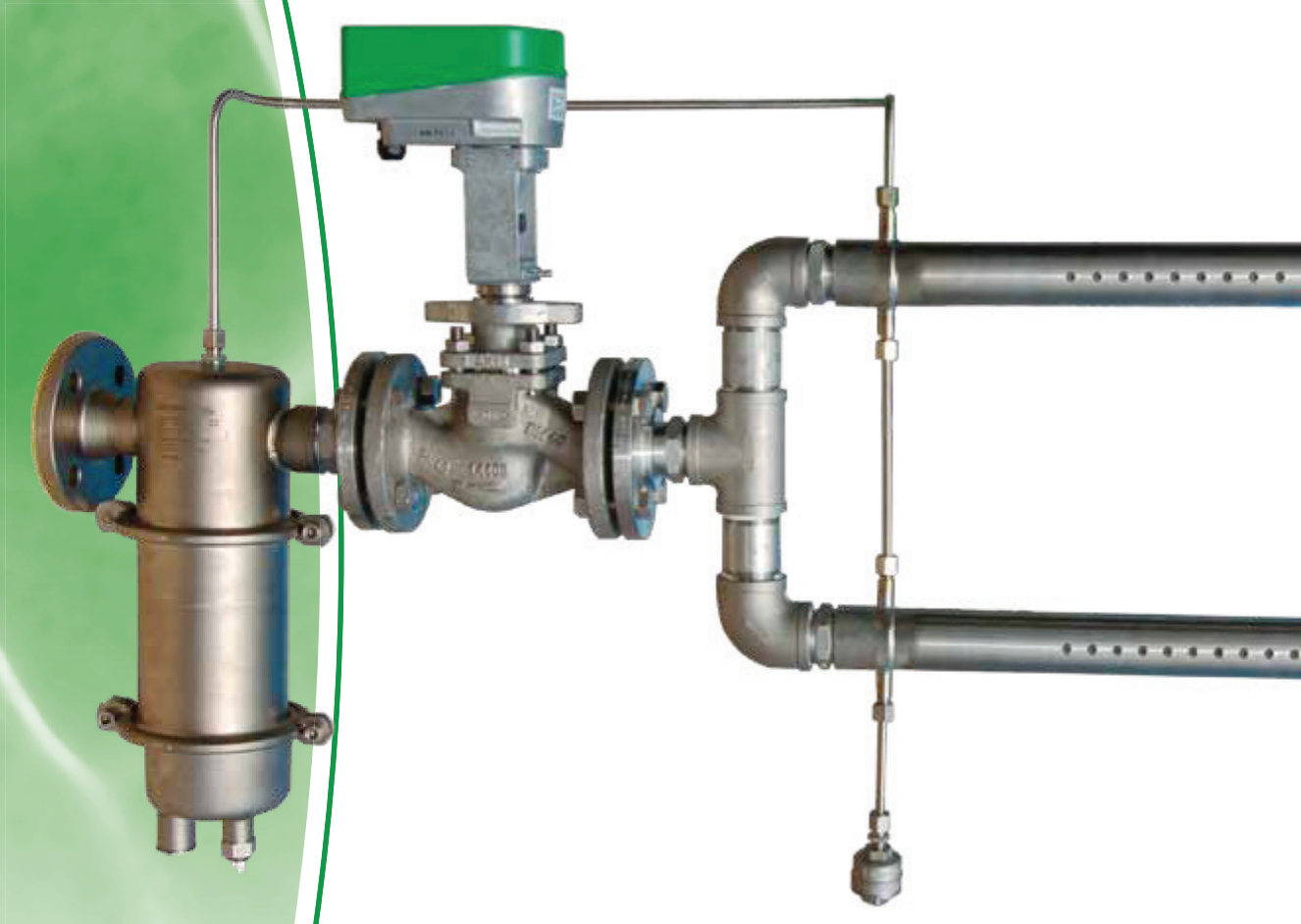


HygroMatik DDS

The new generation
of steam injection humidifiers



HYGROMATIK
WE HUMIDIFY THE AIR

The new generation

The new HygroMatik DDS, the only system offering four components in one compact unit.

High performance separator, strainer, condensate drain and start-up safety feature – all in V4A stainless steel, compact, light and energy efficient.

The DDS can be configured individually. The standard flanged connections, compact dimensions and light weight ensure easy installation – even where available space is at a premium.

The HygroMatik DDS humidifies with condensate-free saturated steam and offers the shortest absorption distances.

The new DDS. Go green!

- The only 4 in 1 system
- Most compact dimensions and least weight
- Best energy efficiency
- Easy installation
- Flexible modular construction
- Customer-specific solutions

Exchangeable strainer

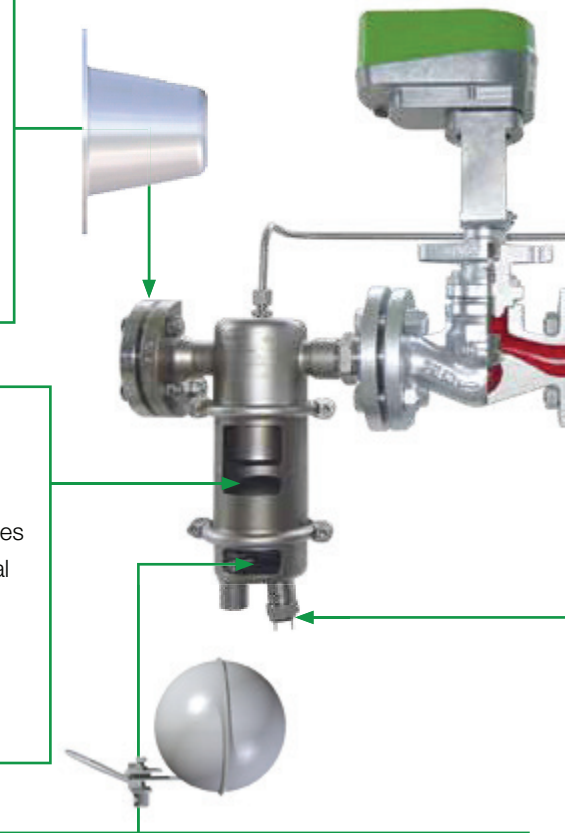
The high-quality stainless steel strainer protects the actuator and the condensate drain from foreign particles from the steam network. The internal fine-mesh strainer can be exchanged when necessary.

High performance separator

The stainless steel separator separates steam from condensate using a spiral shaped guidance system. The low weight and compact closed-system makes the HygroMatik DDS easy to install and energy efficient.

High performance condensate drain

The robust, tight-sealing, ball-float condensate drain discharges condensate. Due to the fast-reaction operating principle and high capacity it can handle large amounts of condensate which are discharged away, for instance when starting the system. The closed-system approach prevents steam loss.



Flexible

All DDS components are light, simple to install and can be individually configured. It will fit anywhere.

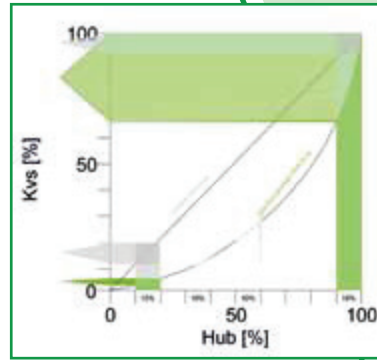


Optimum regulation

The bus compatible actuator ensures optimum control.
Direct connection – no adapter involved.

The special metal-to-metal sealing HygroMatik actuator-valve controls the steam flow via valve-lift with percentual characteristic curve. This means:

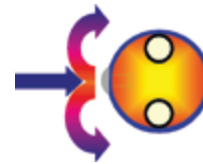
- Especially fine control in lower ranges
- Rapid reaction for high humidification requirements in higher ranges



Stainless steel steam lances

They have low weight and are easily installed. Low-noise steam nozzles take steam from the driest areas of the steam lance.

The nozzles are positioned against the air-flow direction which ensures fast distribution and short absorption distances.



The internal, closed-system steam lance heating system

It is located at the lowest point on the steam lances so that any possible condensate can be vaporized immediately. The light and maintenance-friendly thermal condensate drain discharges condensate out of the heating system. The heating system is supplied directly from the separator or, alternatively, from a separate steam supply.

- Space-saving through internal heating system
- Rapid regulation during start-up through pre-heated steam lances
- No air-flow heating

Reliable start-up safety feature

The start-up safety feature switches in humidification only after a specified temperature has been reached. This effectively prevents condensate ingestion from the steam network into the air conditioning ducting.

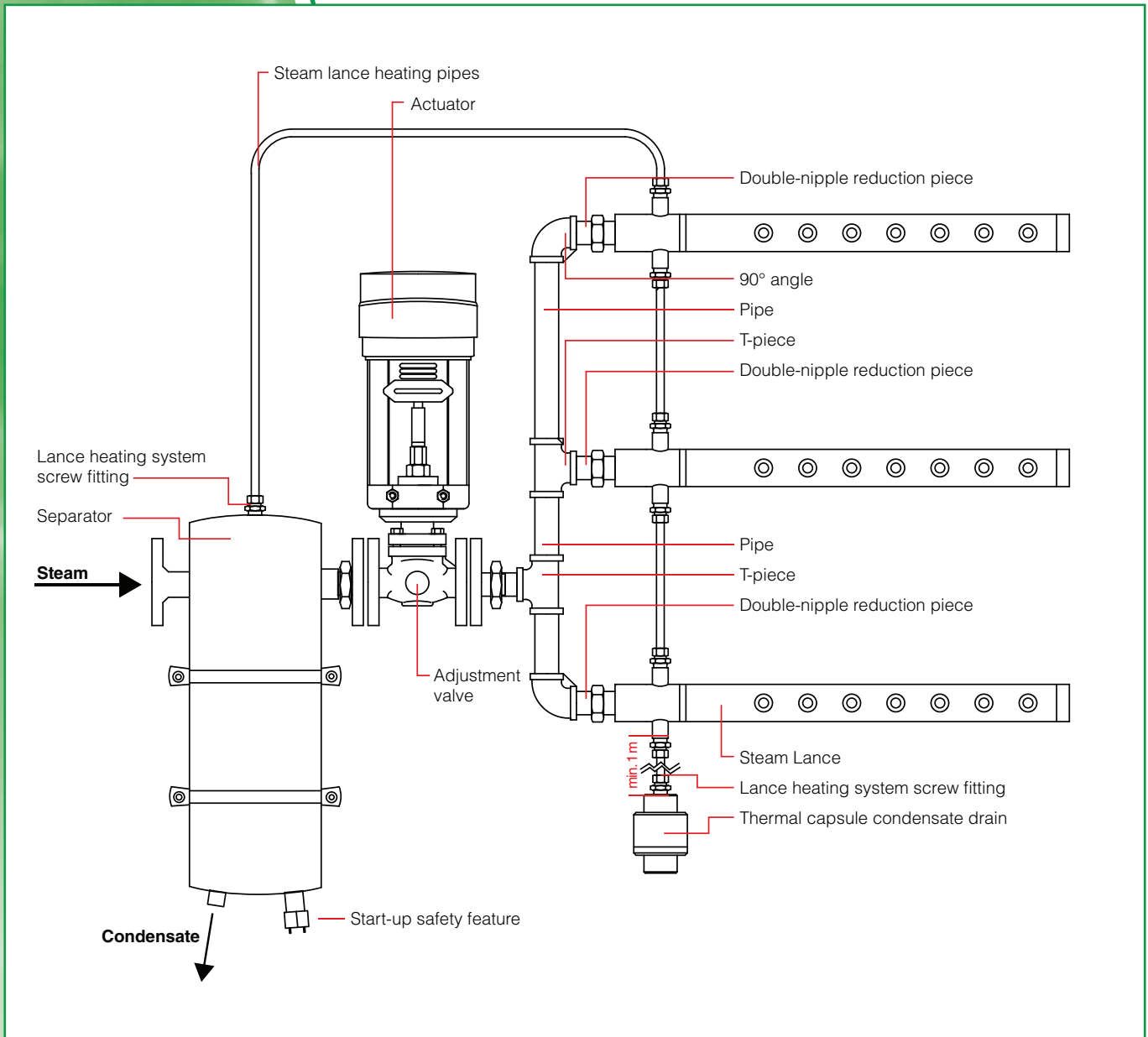
Our service for you

- Personal on-site care provided by qualified field service employees
- Technical hotline: 0870 4685463 (0870 HOTLINE)
- HygroMatik service partners throughout Germany, Ireland and the UK – including in your vicinity
- Operating manuals, planning data and workshops available online at www.hygromatik.com



DDS

Installation schematic



Source of cover pictures:
Lilly Forschung GmbH, Hamburg

03/2012

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