

DEMAND GRUNDFOS
iSOLUTIONS

Industrial applications

BOILER FEED

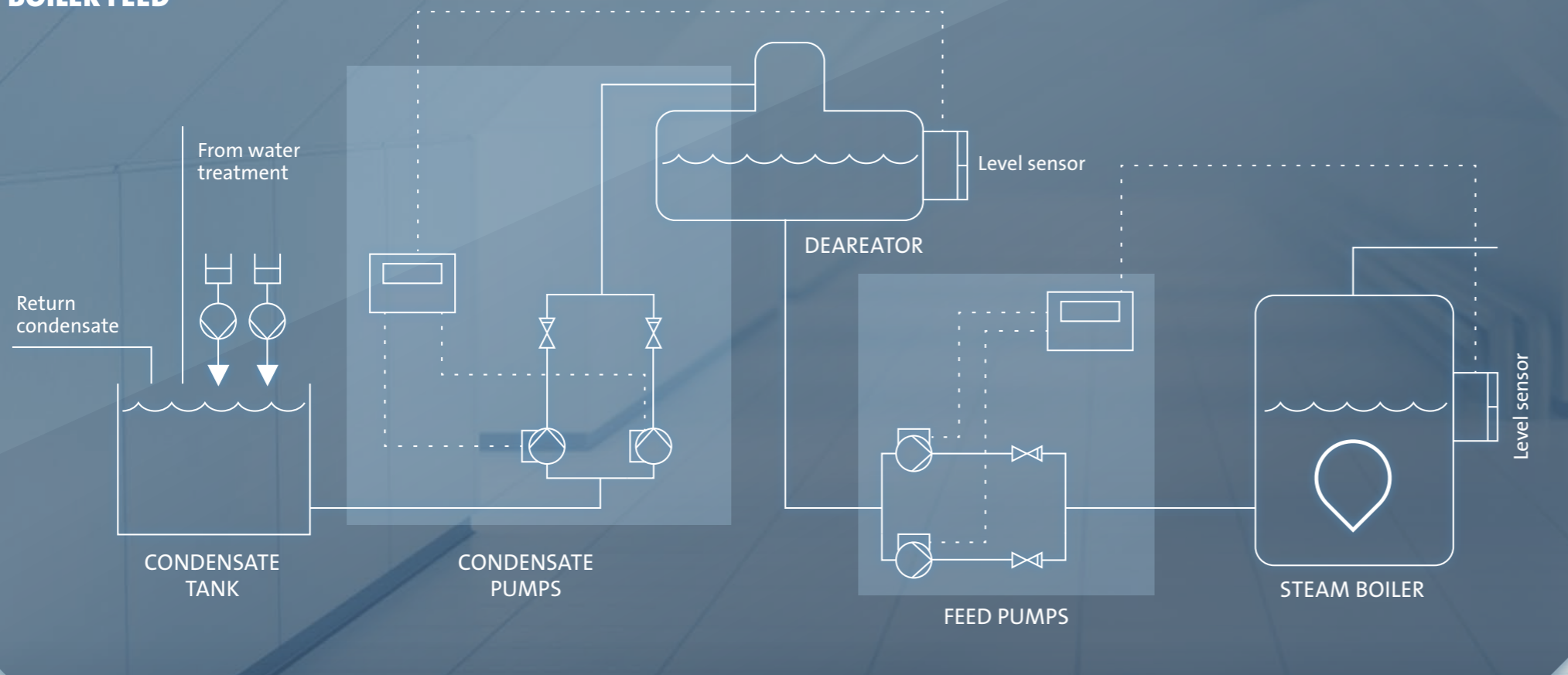
INTELLIGENT SYSTEM DESIGN

be
think
innovate

GRUNDFOS 

BOILER FEED INTELLIGENT SYSTEM DESIGN

BOILER FEED



CONDENSATE PUMPS

The condensate pumps are controlled according to the level in the condensate tanks and the deareator.

BENEFITS

- Constant level in the 'deareator' secures optimum performance and safe inlet pressure to the boiler feed pumps

PRODUCTS

NB, NK, CR, TP, CUE, CM, Smart Digital, DDI, DDE, DMB

FEED PUMPS

In this system the water level in the boiler is controlled directly by variable speed pumps without the use of a feed valve. The pumps are controlled by a level sensor or a differential pressure transmitter positioned on the boiler. Water intake is controlled according to steam consumption

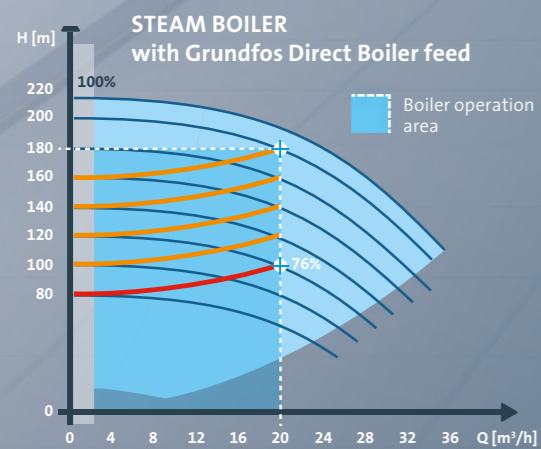
The system operates smoothly and is ideal for all types of steam boilers, both small and large, and minimises the risk of over-boiling.

BENEFITS

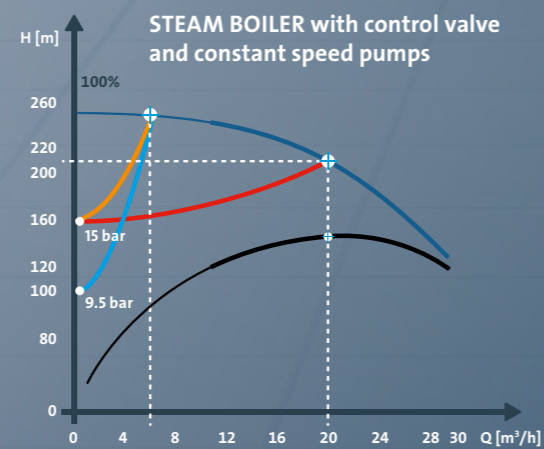
- Boiler feed adjustments according to steam consumption
- No feed valve means no pressure loss
- No need for low flow by-pass
- Pumps stopped when "high level" is reached
- No need to buy or maintain an expensive feed valve
- Energy savings on pump operation as the need for by-pass is eliminated

PRODUCTS

CR, MPC



- System curve at nominal boiler load
Duty point will follow system curve at reduced load.
Boiler pressure 15 bar/160 m head
- System curve and corresponding pump curve at full steam production but boiler pressure 7.5 bar/80 m head



- Boiler pressure 15 bar/160 m head - reduced boiler load
- Boiler pressure 15 bar/160 m head
- Boiler pressure 9.5 bar/100 m head - reduced boiler load

TOTAL SYSTEM INTELLIGENCE ON DEMAND

Grundfos iSOLUTIONS is a commitment to deliver intelligence throughout the solution for optimum pump system performance. We think beyond the pump and take the entire pumping system into account. We optimise the way pumps, drives, controls and protection, measurement and communication units work together as part of one system.

Grundfos iSOLUTIONS brings together your demands, our application expertise and state-of-the-art pump intelligence together for any application.

Learn more on www.grundfos.com/isolutions

Grundfos Product Center

Advanced product specification is available from the Grundfos Product Center, your free online tool for easy selection and sizing, technical information and documentation including manuals, CAD drawings, service instructions and videos.

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