



# Gas systems for combined heating and power plants

Edition 06.11 · GB



AVS works photograph



SES works photograph



Elektro Hagl works photograph

## Innovation that pays

Safety, lower energy consumption and active environmental protection are issues of utmost importance for operators of combined heating and power plants (CHPs).

### Safety

Elster Kromschroder gas control and safety systems often do more than make CHPs safe. They provide operating personnel with optimum protection to a much higher level than is required by the relevant standards and regulations.

### Modular design

The specially coordinated product range offers excellent modular design options. For years now, we have been very successful in taking these important steps into the future of the modular element system in gas safety technology.

### Gas types

All Elster Kromschroder systems are suitable for natural gas and LPG. In addition, we can supply a large assortment of reliable gas controls for sewage gas, landfill gas, biologically produced methane, generator gas and coal gas.

### Easy commissioning

Elster Kromschroder systems are a key cost-cutting factor because they are easy to assemble and install. Commissioning procedures are accordingly short and straightforward. We also offer a special range of courses for various customer and product groups, should you require extra support. Our competent Service Team is also there to help.

### Optimum value for money

Elster Kromschroder offers technically optimized concepts for your CHPs with good value for money.

### High availability due to robust construction

The design and robust construction of the Elster Kromschroder systems ensure a long service life.

### Extensive technical documentation

Brochures and operating instructions in several languages, planning folders and Elster Kromschroder System Technology manuals – printed or on DVD – ensure easy handling of our diversified product range – from manual valves, gas filters and gas pressure regulators, etc. to all-in system solutions. You can download up-to-date Elster Kromschroder information from the Internet at any time.

[www.kromschroeder.com](http://www.kromschroeder.com)

[www.docuthek.com](http://www.docuthek.com)



ESS works photograph



MTU Onsite Energy works photograph

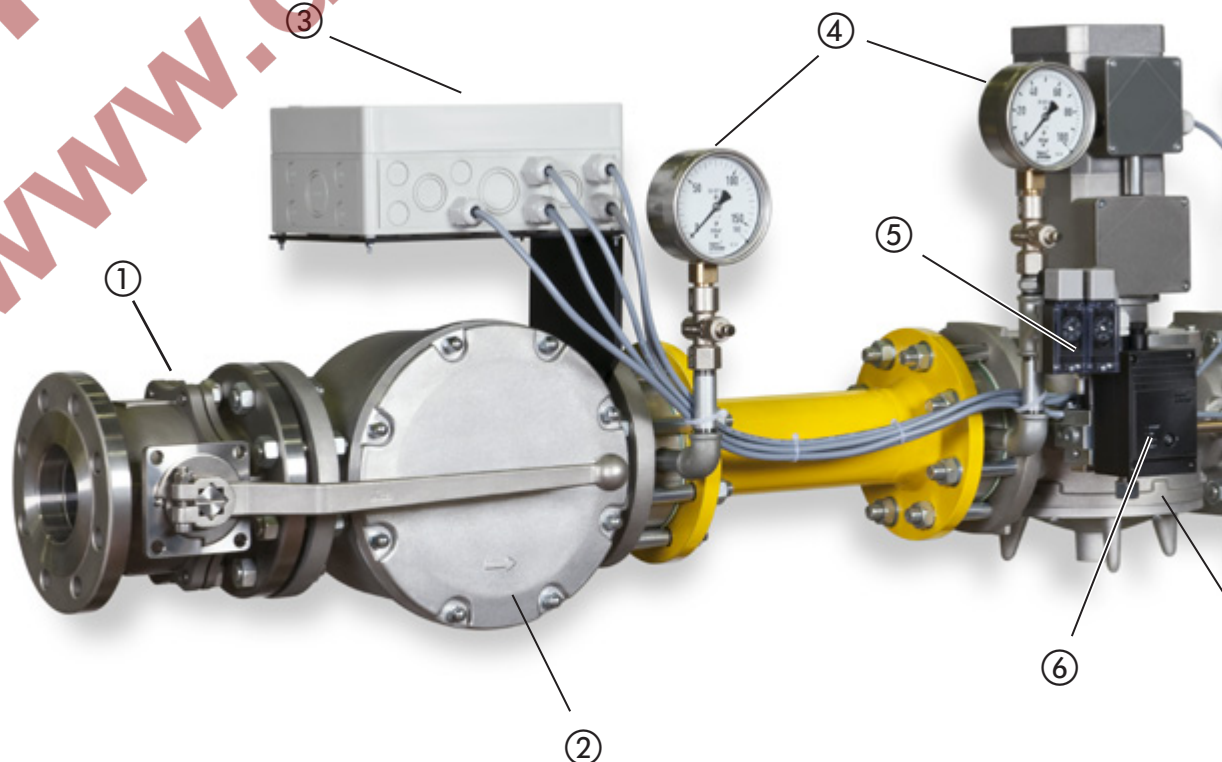


Sokratherm works photograph

### Legend

- ① Manual valve AKT
- ② Gas filter GFK
- ③ Switch box SK
- ④ Pressure gauge KFM with manual cock DH
- ⑤ Pressure switch DGC
- ⑥ Tightness control TC
- ⑦ Motorized valve VK
- ⑧ Flame-arresting non-return valve
- ⑨ Zero governor GIK

System photograph:  
TAB Spelle  
GmbH & Co. KG







VCS



VCS XL



TC



DG

## Fast responses

All of our business segments rely on teams of specialized staff. From development and production through to quality assurance, responsibility lies in their hands. In this way we combine core competencies and are at all times in a position to offer our customers individually-tailored solutions in a rapid and flexible manner.

## Proximity

Our sales and marketing structure, logistics system and customer service are exactly tailored to the needs of our customers. You can find customer- and system-specific services in our branch offices and agencies in over 60 countries covering every continent. And of course we are present at all the relevant trade fairs.

## Control units without limits

With valVario® from Elster Kromschroder, safety devices with an integrated control function are available in every design desired for gas engines of any size. The modular gas combination control for customized combination for different gas/air mixtures makes a real contribution in terms of energy saving. A variety of additional components is available for many special solutions.

The new valve series valVario can be used for safeguarding, controlling and regulating the gas supply to gas engines. It can also be used for main gas control and safety. The zero pressure control function can be integrated into the valVario solenoid valves. valVario is designed for a maximum inlet pressure of 500 mbar and allows higher flow rates with the same nominal size. The fact that the devices contain no non-ferrous metals makes differentiating between biologically produced methane, natural gas and LPG engine applications superfluous.

The space-saving, compact design means that they are easy to install.

On the standard version, the flow adjustment can be checked using

an indicator,

while a blue LED is used

to check the overall function. The

device can also be fitted with a proof

of closure switch with

integral visual position indicator.

## Actuator IC 20, IC 40

Actuators for gas control elements to be used as flow rate control devices in pilot injection engines. The basic unit, actuator IC 20, is controlled by a three-point step signal. As an option, it can be controlled by an analogue signal. Due to its outstanding flexibility, the IC 40 is suitable for various control types ranging from continuous control to staged control. It can be parameterized using a PC with a wide range of data being stored in a history storage.

## Lambda controls with linear flow control LFC or RV

Constantly growing demands on the control quality of flue gas values requires high-quality and nevertheless cost-effective adjustment devices. Elster Kromschroder new generation linear flow controls meet these requirements. They are ideal for use in large lambda and capacity ranges with continuous control for natural gas, biologically produced methane and LPG. Versions with step motors are also available.

## Gas trains as a system solution

We provide complete solutions for CHP applications with pre-assembled gas safety, measurement and control systems for safeguarding and controlling gas engines. In the pre-assembled system solutions, the functions of the individual components are perfectly coordinated. The shaped parts can either be made of stainless steel or St 35.8, welded, primed and painted in RAL 1032. Threaded joints are made of malleable cast iron or stainless steel fittings. The gas trains are documented pursuant to the standards and regulations currently valid. Comprehensive documentation with all the required documents pursuant to the Machinery Directive, CAD drawings and 3D models as well as operating manuals for the individual units in several languages are enclosed in the system.

Our approval in accordance with DVGW Code of Practice G 493 allows for the construction of a supply pressure control system in compliance with applicable standards.



IC 20 with BV 80



LFC with IC 20



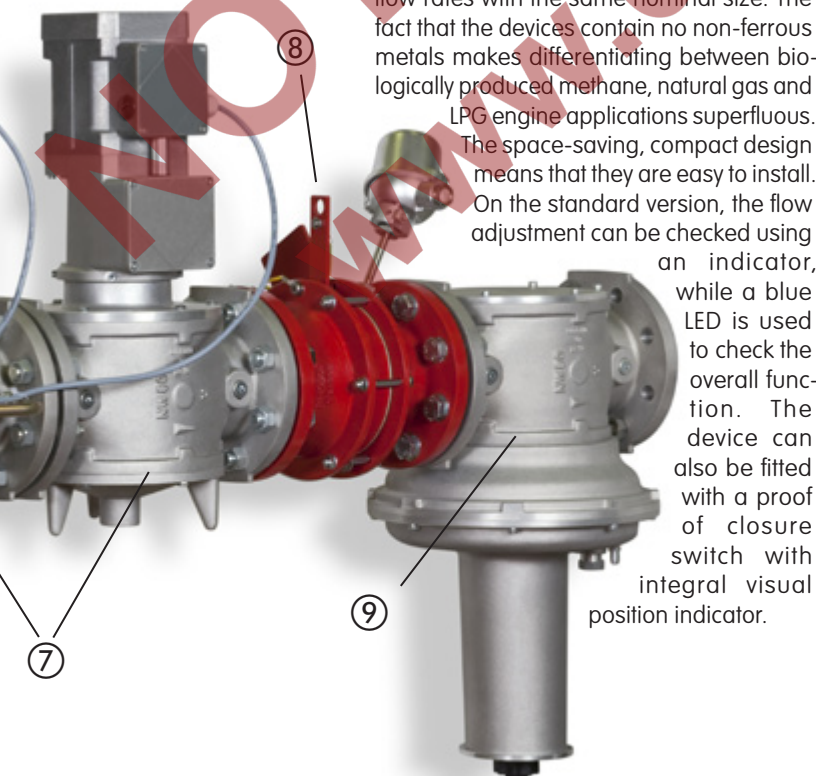
RV, RVS



DM



Gas train





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