

The advertisement features a central blue gate valve highlighted by a spotlight. Four other gate valves in various colors (green, red, yellow) are arranged around it, connected by a thin white line. The background is dark with a blue wavy line at the bottom.

AQUOSUS[®]

Gate Valves

Unique technology and flexibility
- a milestone within gate valve technology

AQUOSUS®

– the new gate valve technology

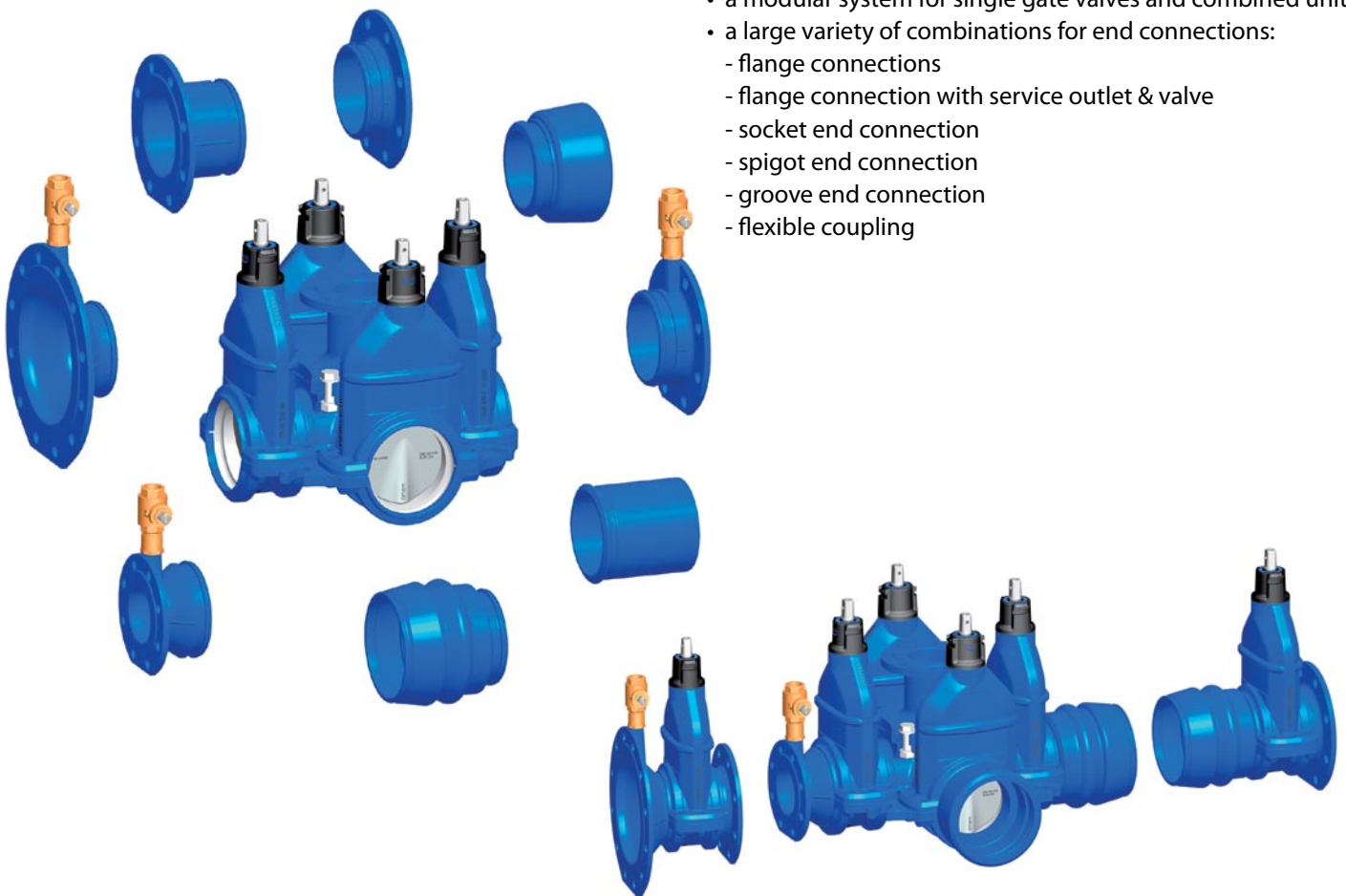
Kongsberg Esco AS provides a new range of valves with unique technology, more reliable and flexible.

Kongsberg Esco AS has developed a unique valve offering you a variety of end connections, both on single valves and on combined units with 3 or 4 outlets. A unique feature of the valve is the patented sealing cartridge. This sealing

cartridge in combination with the new wedge made of stainless steel AISI 316 will eliminate corrosion problems and extend the valves lifetime. Tailor made solutions according to customers requirement will now be possible.

Aquosus® – the future modular gate valve system:

- a modular system for single gate valves and combined units
- a large variety of combinations for end connections:
 - flange connections
 - flange connection with service outlet & valve
 - socket end connection
 - spigot end connection
 - groove end connection
 - flexible coupling



3 examples of tailor made new customized solutions



Laboratory tests of single gate valve.



Test installation of valve unit at customer.



Lifetime test – after 2500 operations the valve is still functioning well.

Patented with a registered trade mark

The unique sealing cartridge is patented in EU and in many other industrialized countries.

Aquosus® is a registered trade mark.



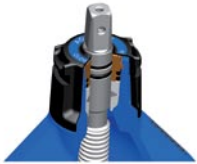
Patented sealing cartridge



New sealing principle

Aquosus® – technical main points:

- center main valve is the same for all types.
- range of connections makes all applications.
- valve body and bonnet ensure the strength of the valve.
- sealing cartridge takes care of the inside geometry and sealing.
- the guided balanced wedge gives a perfect sealing and a very low operation torque.



Valve top

CR bushing – tripple O-rings.
Repackable under pressure.
Bayonet valve top for extenstions.
Bearings in POM C material

Stem nut

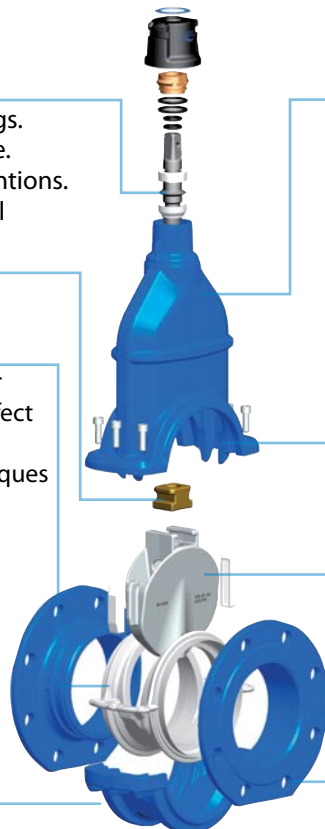
Copper alloy – lubricated.

Sealing cartridge

Made of reinforced polymer rubber compound. The perfect geometry of the cartridge ensures closing at lower torques and gives an excellent seal between body/bonnet and connections.

Bottom cover

Anchoring piece for the center assembly.



Valve body

Modern design.
ID marking and serial no. tracing.

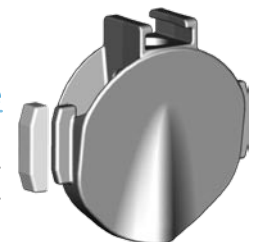
Connection principle

Groove ends – coated with epoxy and sealed by the cartridge.



Wedge

AISI 316 with POM wedge guides.
Very low friction.



Connections

Groove end connections.



Easy to open/close – Low noise level even at high flow and speed.



Minimum friction results in at low closing torque and long lifetime.



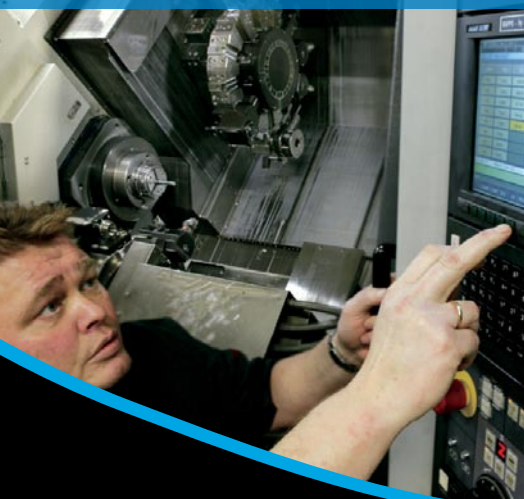
Full scale testing at the plant by the river.

Byrå: VISBANDI

Aquosus® – gate valve with added value

- Positive feedbacks after 3-year of field testing in the cities of Trondheim, Bergen, Kristiansand and Drammen in Norway.
- The modular system will also create smarter, simpler and more cost effective solutions, this in spite of the fact that the products are more expensive than traditional valves.
- In both new plants and replacement of old valves, the need for pipe fittings can be reduced by using Aquosus® tailor made valves.
- Stainless steel wedge in combination with the special cartridge gives a corrosion free valve opening up for market segments which normally calls for more expensive solutions.

High tech production.



Production plant in Kongsberg.



Modern and advanced powder epoxy plant to GSK.



**KONGSBERG
ESCO**

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