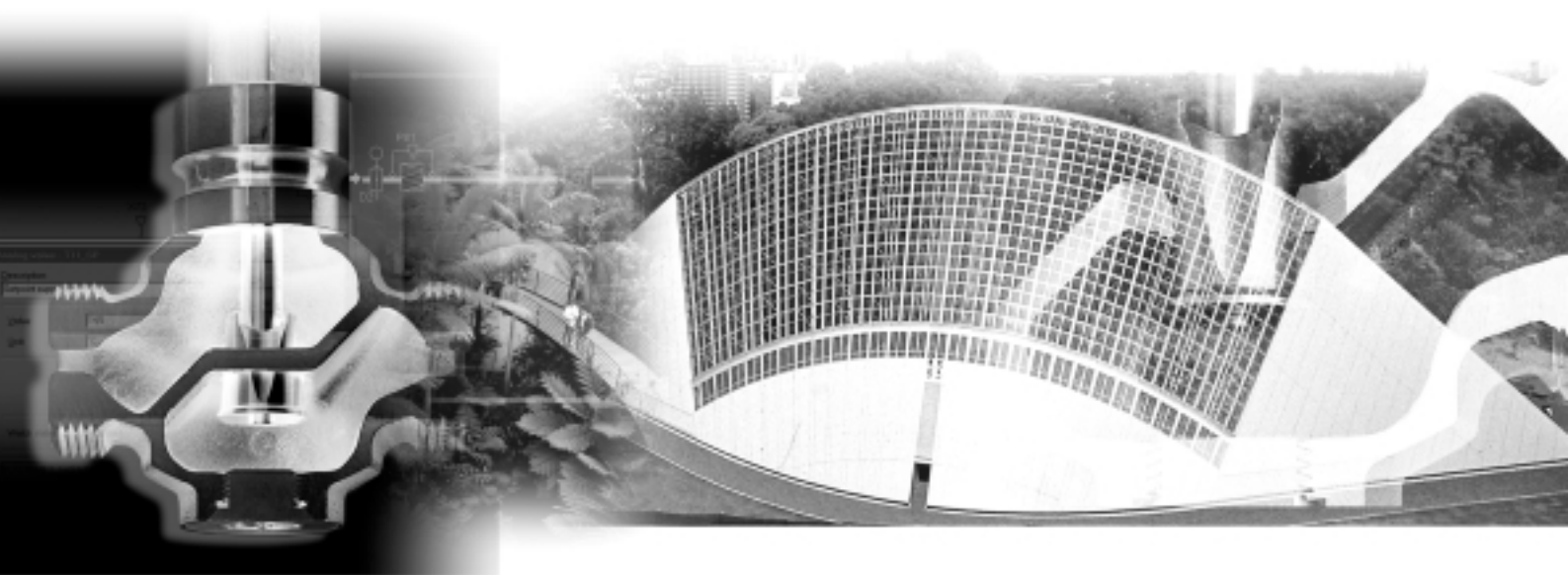


TAC Venta™

A new generation of valves
with crown plug – for optimum operating
costs and comfort



t.a.c. ®

A new generation of crown plug – for operation and comfort

Helps you cut your operating costs

TAC Venta™ is the market's first range of HVAC valves to IEC 534. Compliance with this standard means that the valves are so accurate that heat transfer is always proportional to the valves' control signal – a property that is unique to the TAC Venta™.

Such a high degree of accuracy soon pays off in terms of reduced energy usage. Both short and long term, it is the accuracy of the valve's control characteristic that determines how effectively it can control operating costs.

Ultimately, achieving the correct level of optimisation of the equipment that, in turn, controls and monitors the indoor climate in the building, is dependent upon the performance of the valve. Changing the existing valves in a system to TAC Venta™ valves, can therefore be an investment that pays off in the short term.

A further benefit is that TAC Venta™ valves require only limited maintenance. All valves in the range are self-cleaning, insensitive to solid particles in the water and corrosion-resistant. By installing TAC Venta™ valves, you not only reduce operating costs but also future maintenance costs.

Helps you take control of the installation

The TAC Venta™ range includes both 2-way and 3-way valves. Together, they replace all valves available on the market with capacities from Kvs 0.25 up to Kvs 38 (Cv 0.29 to 44.5).

TAC Venta™ valves are easy to install and remove. Threaded, soldered or welded connections are available, and all valves can also be controlled by one and the same actuator, the TAC Forta™.

The stem, the crown plug and the valve seat are all made of stainless steel, which contributes to both the accuracy of control and to the long life of the valves. TAC Venta™ valves are self-cleaning, insensitive to solid particles in the water and completely corrosion-resistant. In addition, they are only very slightly affected by cavitation.

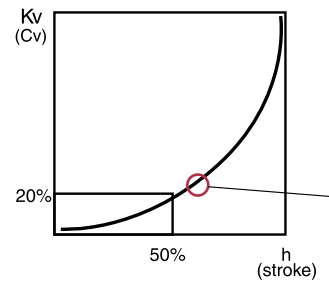
TAC Venta™ makes it easy to select the right valve for any application.

This saves time in specifying, ordering and the actual installation work.

TAC Venta™ – the only range of HVAC valves that complies with IEC 534

IEC 534 is an industrial standard that specifies that the valves should provide high accuracy control throughout their operating range. The purpose of this valve standard is to control the actual performance deviation from the specified characteristic. Too rapid or too great deviations from any part of the control range are not allowed.

TAC Venta™ is the first range of HVAC valves that has sufficiently high control accuracy to be approved to IEC 534.



IEC 534 requires that the difference between specified and actual capacity must not exceed the very tight limits given in the standard.

TAC Venta™ valves can replace all valves in applications up to Kvs 38 (Cvs 44.5)

TAC Venta™ valves replace all older types of valves used in HVAC applications.



The range extends from size DN 15 to DN 50 (1/2" to 2"), with Kvs 0.25-38 (Cvs 0.25 to 44.5) and a control range up to R 200.

Highly polished stainless steel stem, with easily replaceable stuffing box for simplified maintenance.

Stainless steel self-cleaning valve head. The design prevents the build-up of solid particles. Applications have been made for patents for the unique crown plug, the design of which is also protected.

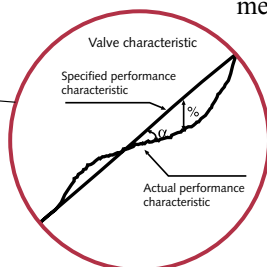


of control valves with minimum operating costs

Accurate valve performance characteristics for optimum operating costs

The TAC Venta™ has an EQM characteristic (i.e. equal percentage, modified). This means that the valves match the characteristics of the heat exchanger or heating coil so that heat transfer is proportional to the control signal. In turn, this means that the input to the climate control and supervision system is correct.

The valve characteristic fulfils the requirements of IEC 534, ensuring absolute precision



throughout the control range from 0 to 100%. Much of this accuracy is due to the unique design of the crown plug.

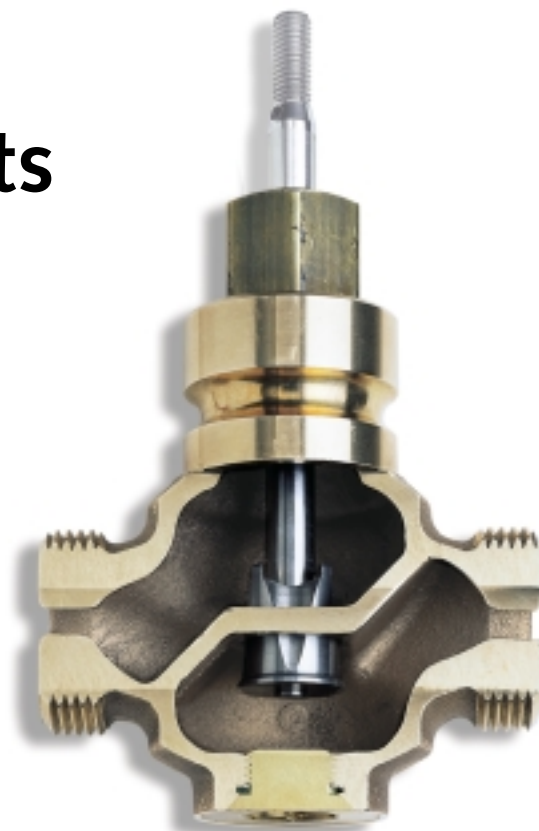
TAC Venta™ valves control heat transfer so that it is exactly proportional to the control signal – a result of the EQM characteristic.

Stainless steel crown plug, stem and seat for long life and high performance

TAC Venta™ valves have an extremely high finish and extremely long life. The robust design withstands severe stresses. The valves are also highly insensitive to cavitation, largely due to the design of the crown plug for which patents have been applied.

All valves are self-cleaning and have a highly polished stem for minimum wear of the stuffing box. This simplifies maintenance, reduces service requirements and, if necessary, permits rapid replacement of the stuffing box. In addition, TAC Venta™ valves are totally silicon-free.

The stainless steel seat protects the bronze of the valve body, ensures high performance and provides an extremely long life.



TAC Venta™

Valves made of bronze for use with media temperatures from -20°C to +150°C (-4°F to +300°F)

The valve body is made of precision-cast bronze with a stainless steel valve seat. Operation is extremely quiet ($X_{fz} = 0.6$) with excellent shut-off ($<0.02\%$).

The long stroke (20 mm (3/4")) of TAC Venta™ valves contributes to their excellent, high-precision control characteristics. Valves are available from size DN 15 to DN 50 (1/2" to 2", with Kvs (Cvs) values of 0.25-38 (0.29-44.5) and pressure class PN16 (rating 230 PSI).

2-Way TAC Venta™ valves

Recommended applications: heating and ventilation circuits; district heating; cooling.

3-Way TAC Venta™ valves

Recommended applications: heating and ventilation circuits; domestic hot water; cooling.

TAC Forta™ – actuators for optimally adjusted control circuits

The TAC Forta™ is an electro-mechanical valve actuator with an integral microprocessor and stepping motor to provide fast, exact valve positioning.

Used in combination with TAC Venta™ valves, the high accuracy of the actuator and valve makes it possible to optimise the control and supervisory system for indoor comfort in the building, reduce operating costs and minimise maintenance. As a result, investments in both new and existing installations pay off rapidly.

Fast, flexible response – reliable and exact control

The fast response time (15 seconds) and highly accurate valve positioning performance of TAC Forta™ actuators mean that they can provide extremely accurate control. The integral microprocessor enables the actuator to be matched to the particular application: running time is therefore always the same, regardless of the stroke of the valve.



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