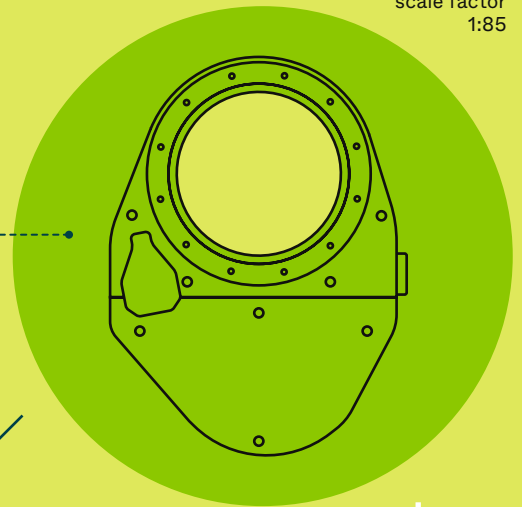


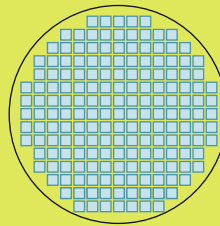
Empowering modern technologies

VAT valves ensure pristine vacuum conditions for our manufacturing clients, helping them increase production yields and reduce rejects.

VAT valve, scale factor 1:85



Vacuum environments are designed to minimize the particle count. Modern chips have nodes measuring 2nm across – about 40,000 times smaller than a human hair.



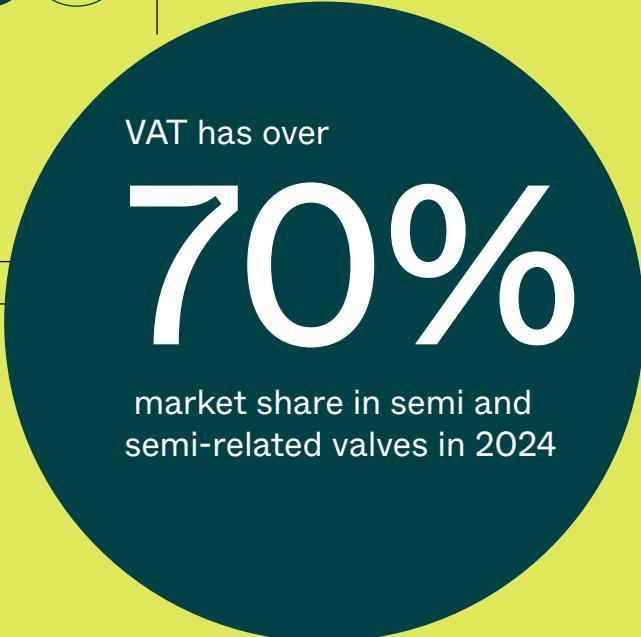
Series 65 control valves are one of VAT's most widely installed products globally. In semiconductor tools, they regulate gas flow for etch and deposition tools.

Precision to the nanometer ...and below!



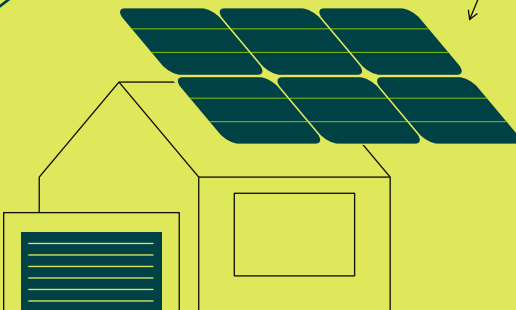
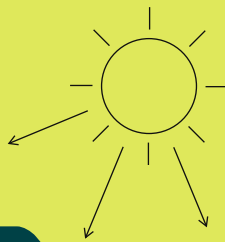
Semiconductor industry

Semiconductors are the building blocks of all our electronics. VAT has been a partner to the semiconductor industry since the late 1980s. As node sizes reach 2nm and continue to shrink, pristine manufacturing environments are essential. Another factor is that smaller nodes take longer to manufacture.



Scientific instruments

VAT started its work in scientific research. To this day, scientists rely on perfect data collection with minimal noise. Our valves help maintain ultra-high vacuum environments for super-precise experiments and measurements.



Solar panels

Manufacturing cheap solar energy is essential to reduce our dependency on CO2-producing fossil fuels. VAT's valves help create more efficient panels and keep manufacturing costs down.