

## **Bürkert enables device optimisation with new compact Type 6164 cartridge valve**

**Bürkert has been opening up optimisation opportunities for device makers with the introduction of its 11 mm long Type 6164 cartridge valve. This compact solution for pneumatic applications can offer up to a 40% space saving compared to traditional valves, thanks to its ability to fit directly into custom manifolds, eliminating external packaging. Its combination of strong performance within a compact footprint is ideally suited for medical device manufacturers producing therapy machines.**

Medical devices, especially portable ones, are becoming more compact for ease of professional and patient use. Whereas traditionally valves would sit on top of the manifold in a pneumatic medical device, the Type 6164 allows for fully sunken or half sunken integration into the manifold itself, which delivers space savings. Such placement is enabled thanks to its cylindrical design with integrated fluid interfaces. This allows OEMs to deliver new devices on a more compact footprint, while still offering the same performance.

Weight is another key concern, especially for devices such as oxygen concentrators. These devices are portable and operated by the patient, so by reducing overall weight via the Type 6164, OEMs can deliver more ergonomic designs that are an easier day to day companion. This also applies to tourniquets and deep vein thrombosis therapy machines, which are both designed to apply pressure to affect blood flow. Smaller pneumatic valves again translate to a more compact, lightweight device which is more comfortable for the patient and more ergonomic for the specialist.

Reducing noise in treatment centres is proven to boost recovery, and this is another area where the Type 6164 delivers. Its switching noise is rated at 42 dB, which ensures that patient comfort is improved during treatment. This helps to secure the tranquillity of an operating environment also.

The Type 6164 delivers a 10% overall energy saving compared to a standard valve, offering a power consumption of less than 0.7 W. This lower power requirement is a huge benefit for portable devices that run on batteries, such as oxygen concentrators. OEMs can maximise this advantage by downsizing batteries while still delivering equivalent performance, which again, presents another opportunity to optimise packaging.

For critical medical devices, reliability is incredibly important. The Type 6164 meets this demand thanks to stringent reliability testing, which has enabled a 100 million switch lifecycle. This allows operators to run devices for longer, while delivering the same quiet performance.

Beyond the medical industry, the Type 6164 is suited to any application that requires a pneumatic pilot valve. The body of the valve itself is manufactured from highly durable PEEK, while the seal is made from FKM. Operating voltages of either 12 or 24 V DC can be specified, along with orifice sizes from 0.5 to 1.2 mm. The standard Type 6164 variant provides a pressure range from -0.8 to 9 bar.

For a truly tailored solution, the Type 6164 can also be specified via Bürkert's Systemhaus, which provides bespoke fluid control systems to the performance requirements of each individual customer.

### Image Captions:

**Image 1-2:** The Type 6164 cartridge valve is a compact solution for pneumatic applications, offering up to a 40% space saving compared to traditional valves.

**Image 3:** Portable medical devices are becoming more compact, traditionally valves would sit ontop of the manifold whereas the Type 6164 allows for dully sunken or half sunken integration into the manifold itself. (Image source: Fotolia 85164581 / torwaipfoto)

## About BURKERT

Burkert Fluid Control Systems is one of the leading manufacturers of control and measuring systems for fluids and gases. The products have a wide variety of applications and are used by breweries and laboratories as well as in medical engineering and space technology. The company employs over 2,500 people and has a comprehensive network of branches in 36 countries world-wide.

The image(s) distributed with this press release may only be used to accompany this copy, and are subject to copyright. Please contact DMA Europa if you wish to license the image for further use.

## Editor Contact

DMA Europa Ltd. : Brittany Kennan

Tel: +44 (0)1562 751436

Fax: +44 (0)1562 748315

Web: [www.dmaeuropa.com](http://www.dmaeuropa.com)

Email: [brittany@dmaeuropa.com](mailto:brittany@dmaeuropa.com)

## Company Contact

Bürkert Fluid Control Systems : Kirsty Anderson

Tel: +44 (0)1285 648761

Fax: +44 (0)1285 648721

Web: [www.burkert.co.uk](http://www.burkert.co.uk)

Email: [kirsty.anderson@burkert.com](mailto:kirsty.anderson@burkert.com)